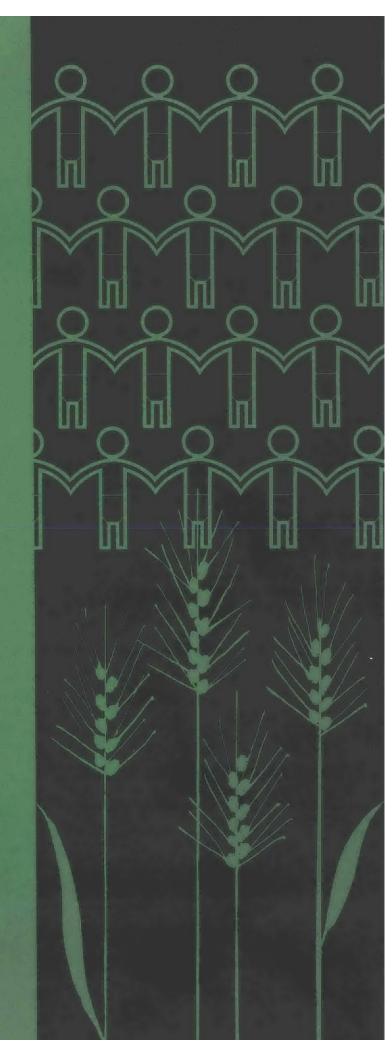
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MIT INTERNATIONAL NUTRITION PLANNING PROGRAM

Discussion Papers No. 7

Towards an International Malnutrition Map

Joanne P. Nestor



The INP Discussion Paper Series is an informal means of disseminating papers written primarily by program personnel to generate comment and discussion. The views expressed are, of course, those of the author(s) and not necessarily those of the INP Program. Correspondence concerning the substance of these papers should be addressed to the author(s) or to:

Director, International Nutrition Planning Program Massachusetts Institute of Technology 18 Vassar Street Building 20A-222 Cambridge, Massachusetts 02139 TOWARDS AN INTERNATIONAL MALNUTRITION MAP

Joanne P. Nestor

Research Assistant
International Nutrition Planning Program
Massachusetts Institute of Technology

International Nutrition Planning Program

Center for International Studies Massachusetts Institute of Technology Cambridge, Massachusetts 02139

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PREFACE

Universities are always making pleas for more and better data, pleas which often have to be taken with at least a small grain of salt. The need for improved data collection systems, out of necessity, must be judged in terms of the opportunity costs of such efforts, particularly when the alternative may be the provision of services.

Nonetheless, the field of international nutrition probably has reached the point where it must be actively concerned with the availability of reasonably reliable data on malnutrition problems and their correlates, both for purposes of national planning* and for international comparisons. National information on nutritional anthropometry, age-specific mortality or land distribution may be relatively meaningless unless it can be examined in perspective with comparable data from other countries. Such comparisons would, in addition, seem essential for international agencies considering large-scale nutrition activities.

The data collection problem for the international nutrition community boils down, in part, to a problem of

National planning, however, also requires the availability of such data in far more disaggregated fashion than would be possible in internationally oriented volumes.

bailiwick. Everyone agrees that nutrition planning requires information from a range of disciplines, yet data almost always is collected separately by agencies and institutions responsible only for one part of the action. The result for the planner is a wide range of often incomparable sources and major information gaps. The international nutrition community has managed to live with this in the past, but there is some question about whether it can continue to do so, given increasing interest on the part of many governments and international agencies in multisectoral nutrition planning if not large-scale budgetary allocation.

One means of addressing the problem, it has been suggested, might be the publication and periodic updating of an international malnutrition map, comparable to agriculture and population yearbooks, which presents countryspecific and comparative information on those variables most pertinent to nutrition planning. While a university has little comparative advantage in actually operating such a map, it seemed to us like an appropriate place to develop a prototype. International agencies, or perhaps a consortium of nutrition divisions within them, would ultimately be best equipped to arrange for the systematic collection of such data and for its dissemination. Considerable interest in the development of such a mechanism has been expressed by officials of all of the concerned international agencies, and within the U.S. by the Agency for International Development and the

Department of Agriculture.

Accordingly, a group of students in the INP Program has taken the initiative to construct a prototype, using twenty-one selected countries, of an international malnutrition map. The map was developed using locally available sources which are listed at the end of the monograph and represent a valuable bibliography. The data itself, as indicated in the Introduction, are seriously problematic, a reflection of the data problem we face. Some are badly dated, some are non-comparable, and one is never sure whether low figures represent the absence of a problem or of an effective data collection system. There are lots of blanks which, we would argue, should help indicate the data gaps and perhaps serve in a small way as a stimulant for the collection of such information.

The value of the prototype, then, is not in the numbers but rather in the format and the idea. The INP students, and particularly, Joanne Nestor, deserve considerable credit for their countless hours of work and their perseverence in this important task.

F. James Levinson, Director International Nutrition Planning Program April 1976

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INTRODUCTION

The nutritional status of an individual, community, or nation depends upon many factors, most immediately food intake and health status. Planning designed to improve that status—the ultimate aim of the nutrition planner—requires information on the population's nutrition, health, economic and social status and on the availability of resources. Some of this information is available on the national level only, while much is available only for a few regions or not at all.

The charts which comprise this first approximation of an International Malnutrition Map indicate some of the information which must be gathered in order to better understand the nutritional status of a nation. The information categories and indicators were developed with the assistance of INP Program staff representing a wide range of disciplines. Forty nations were selected for data exploration of which twenty-one countries were finally selected for inclusion in the Map.

| | · | | |
|--|---|--|--|
| | | | |

THE DATA SEARCH

Availability of Data

The data presented in the map tables were collected by INP Program students in 1974-75. The sources of information available to them included published materials in the M.I.T. and Harvard University libraries and unpublished information collected by Program personnel. This clearly represents only a portion of the data available worldwide, much of which has not been widely disseminated by governments and international agencies.

Categories of information for which data were not available were often in the health observations categories. Some proposed observations had to be eliminated from the study due to an almost total lack of information: duration of breast feeding and age at weaning, average height at age of school entry compared to age standards (as an indicator of incidence of early childhood malnutrition), domestic nutrition intervention programs, and rural/urban breakdowns of such information as nutritional status, food intake and nutritional deficiencies. These are vitally important data categories and should be included in such maps if only to indicate, initially, the absence of such data and the need for it. We have accordingly left in tables on the incidence of disease and on nutritional deficiencies, even though the tables were filled in only a few countries.

Age of Data

Much of the information on health and nutrition was somewhat dated relative to the rate at which status in these areas can change. Most of the "ICNND"* health and nutrition studies were made in the early 1960's; the INCAP** studies, in 1968-69. All of the nations in the sample have experienced significant increases in population and urbanization since then, rendering the data itself less useful in terms of ongoing planning and programming. Other measures, such as food trade and availability, mortality rates, and unemployment, often change rapidly, while literacy levels, population growth rates, and mortality rates change slowly. Land area, normally stable, may change drastically with political events, as was the case with Pakistan in 1972. Such changes, of course, have enormous effect on most of the other measures.

Accuracy of Data

There are other reasons for concern about the accuracy of the data as reported. First, the reporting source may be biased. Food intake studies, for example, particularly the 24-hour recall type reported here, are often responsive to the subject's perceptions of what an interviewer wants to

^{*(}U.S.) Interdepartmental Committee for Nutrition and National Development.

^{**}Institute de Nutricion de Centro America y Panama.

hear, to lapses of memory, or to exaggeration in an attempt to impress the data collector or deny poverty. More accurate, more difficult, and less frequently performed recipe and food analysis studies which are theoretically more accurate but are much more difficult and expensive and less frequently carried out, indicate that 24-hour recall studies usually underestimate actual intake. Infant mortality rates may be biased by underreporting infant deaths, particularly in areas where the rates are high. Many nations only report infant deaths and birth weights as reported by hospitals, which would be serving only the wealthy or the most seriously ill. Thorough and accurate reporting, for example, may account for Chile's relatively high infant mortality rate.

A second accuracy problem is one of definition: official unemployment figures for some nations reflect joblessness only among those officially registered as looking for work, while in other countries an estimate is made for the total population. In either case, no allowance is made for the incidence of under-employment or seasonal unemployment, both of which have serious effects on a family's purchasing power. Discrepancies also are found in definitions of "urban", "midwives" (level of training required for recognition), and "nutritional deficiency", as well as in the age group used in anthropometric measurements. (Including five and six-year olds decreases the measured rate of malnutrition.)

A final element adversely affecting accuracy is inadvertent human error. Every level in the collection, processing, and dissemination of these numbers is an occasion for error. A number of such errors were caught in checking the tables, but some undoubtedly remain, and the original references should be used by persons seeking specific information.

Comparability of Data

Although one purpose of mapping a large group of nations was to permit comparison among them (see Tables), one must remember that the distortions of age definition and inaccuracy make close comparisons in some categories impossible. The Tables are provided for general overview only.

OBSERVATIONS AND CONCLUSIONS

Whatever the evolution of nutrition planning, certain types of information, for example, on nutritional status, food intake and distribution, severity and incidence of deficiencies, and income distribution, will always be critically important. Without such information on the nutrition status of a population and its correlates, nutrition intervention becomes largely a matter of guesswork. Such information must be collected in order to identify and address problems in this vital area.

The difficulties encountered in compiling the data, and the number of references required, highlight the fragmentation of nutrition-related information.

Disciplines such as public health, economics, and agriculture collect data independently and rarely interact with one another. Problem-oriented rather than discipline-oriented data-gathering and dissemination would certainly increase the utility of the information so handled. Such an orientation would also help eliminate the existing gaps in country data. The need for information on women in the labor force, on breast-feeding practices, and on the urban/rural distribution of health facilities and personnel is evident but the responsibility for gathering it is less clear, with the result that it is not done.

A final observation, perhaps too obvious to warrant mention, is the diversity among low income nations

revealed by the charts and tables. The range of problems is wide, as is the range of resources. No two nations present similar profiles; each is unique. This uniqueness demonstrates both the challenge in nutrition planning and the critical importance of maintaining accurate data on problems and on programs designed to affect them.

USING THE TABLES

Several formats for the presentation of the data collected in this study were suggested and tested. The forms used were chosen for legibility and utility.

The first set of tables in country-specific, showing all the categories of data collected and the year in which the observation was made. The second set provides the references for the first, showing the bibliographical reference number and the date of publication of the reference. Third is a collection of comments on studies for which methodology and sample size may vary among countries. In most cases, sample selection methods were not given, and regretably the means of deriving unemployment statistics also are not generally available.

The final tables present selected categories of information, showing the countries status relative to one another.

Subject to the cautions noted above, such graphs indicate which nations have the severest problems and which have problems of data collection.

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COUNTRY-SPECIFIC TABLES

BOLIVIA

| NUTRITION | MORBIDITY AND MORTALITY | |
|--|--|--|
| Food Availability (1964-66) Calories 1760 | Mortality (deaths/100,000, all ages) (1966) Respiratory 178.2 | Disease Incidences (Cases/100,000 children/year) |
| Protein (gm) 46 | Diarrheal 35.9 | Respiratory 94.1 (1966) |
| Iron (mg) | Measles 12.3 | Diarrheal 1.6 (1966) |
| Vitamin A (IU) | Tuberculosis 34 | Measles 17.6 (1966) |
| 1244424 11 (10) | Maternal/1000 live births | Pellagra |
| Food Intake (1961) | | Beriberi |
| Calories 1850 | Leading causes of child deaths (1973) | Scurvy |
| Protein (gm) 59.5 | 1. Nutritional | Rickets |
| Iron (mg) | 2. Respiratory | Goiter |
| Vitamin A (IU) | 3. Diarrhea | Kwashiorkor |
| VICAMIN A (10) | 4. Measles | Marasmus |
| Gomez classification | 5. Tuberculosis | Keratomalacia |
| Normal | 6. Whooping Cough | Anemias |
| 1st degree | 7. Septicemia | Intestinal parasites |
| | 8. Other intestinal | Tuberculosis 180.5 (1970) |
| 2nd degree | 9. Syphilis | idberculosis 100.5 (1970) |
| 3rd degree | 10. Amoebiasis | Hemoglobin Levels (1962) |
| The second secon | 10. Allioediasis | |
| Birth weights by sex | 01.17.1 - 1.7.1 /1.00 | |
| Average (gms) | Child mortality (deaths/1000, all causes) | cient & low (gm/ml) |
| | age 0-30 days | Age (yr) |
| Below 2500 gms | 1-12 months 77.3 (1968) | 1/2-5 |
| | 1-4 years 10.5 (1963) | 5-14 3.6 16.8 14.9 |
| 40.00 | (10.10.00) | 15-45, m. 2.5 4.9 17.0 |
| Most severe deficiencies (1963) | Life Expectancy (1949-51) | 15-45, f. 3.3 13.3 15.6 |
| 1. Calcium | at birth 49.71 (M) 49.71 (F) | pregnant 14.6 |
| Riboflavin | at age 10 | lactating 15.0 |
| 3. Vitamin A | | |
| 4. Thiamine | | |
| Calories | | * |
| | | • |

BOLIVIA

| POPULATION | | LABOR AND INCOME | | HEALTH CARE | | |
|--|---|---|---|---|---|-----|
| Total (millions)(1973) % age (years) 0-1(1971) 1-4 | 53.3 16.2 | Income Distribution (% income for lowest x% | | Facilities (1970) hospitals hospital beds | 260 9451 | |
| 5-9 | 13.6 | X=20% | • | population/bed | 522 | |
| 10-14 | 12.0 | 40% | | total health units | 279 | |
| 15-19 | 10.6 | 60% | | population/unit | 18147 | |
| 20-54 | 39.5 | 80% | | population/unit-rural | | |
| 55-59 | 2.6 | 90% | | population, and large | | |
| 60-64 | 1.9 | 95% | | Personnel (1971) | | |
| 65+ | 3.5 | 55% | | doctors | 2143 | |
| 05+ | 3.3 | Unemployment Rate | | % in rural areas | 2143 | |
| Density (persons/km ²)(19 | 73) 5 | bnemproyment Rate | | population/doctor | 2301 | |
| % Urban | 34 | Labor Force | | nurses | 1806 | |
| Growth (rates/1000) | | (1950) % female | 43.0 | % nurses rural | 1000 | |
| crude birth rate (1 | 970) 44 0 | (1970) % in agriculture | 58.0 | population/nurse | 2730 | |
| crude death rate (1 | 071) 10 1 | (1970) % In agriculture | 30.0 | | 185 | |
| | 971) 24.9 | % T C B1 | (1962) 64.2 | midwives | 26651 | |
| growth rate (1 | 271) 24.3 | % Income Spent on Food | (1902) 04.2 | population/midwife | 20031 | |
| | | | | | | 1 |
| MACROECONOMIC MEASURES | | AGRICULTURE | • | EDUCATION | | 11- |
| | 1971) | *************************************** | • | | 1 | 11- |
| Gross National Product (| | Land (1968) | 1099 | Expenditures (1969) | 28.0 | 11- |
| Gross National Product (total (billion \$US) | .950 | Land (1968) Total (1000 km ²) | 1099 | Expenditures (1969) total (million \$US) | 28.0 60 | 11- |
| Gross National Product (total (billion \$US) | .950 | Land (1968) Total (1000 km ²) % arable | 2.8 | Expenditures (1969) total (million \$US) % on lst level | 60 | 11- |
| Gross National Product (| .950 | Land (1968) Total (1000 km ²) % arable % pasture | • • | Expenditures (1969) total (million \$US) % on lst level % on 2nd level | 60 21 | 11- |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7 | .950 190 1) 2.2 | Land (1968) Total (1000 km ²) % arable | 2.8 | Expenditures (1969) total (million \$US) % on lst level | 60 | 11- |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ | .950 190 1) 2.2 SUS)(1971) | Land (1968) Total (1000 km ²) % arable % pasture % cash crops | 2.8 10.3 | Expenditures (1969) total (million \$US) % on lst level % on 2nd level % on 3rd level | 60 21 9 | |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ Exports | 950 190 1) 2.2 SUS)(1971) 182 | Land (1968) Total (1000 km²) % arable % pasture % cash crops Land Distribution (% or | 2.8 10.3 f farms by size)(1950) | Expenditures (1969) total (million \$US) % on lst level % on 2nd level % on 3rd level Level completed, age 15+ | 60 21 9 (1953) | 11- |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ Exports Imports | .950 190 1) 2.2 SUS)(1971) 182 165 | Land (1968) Total (1000 km²) % arable % pasture % cash crops Land Distribution (% or 0-1 hectare | 2.8 10.3 f farms by size)(1950) 28.6 | Expenditures (1969) total (million \$US) % on lst level % on 2nd level % on 3rd level Level completed, age 15+ no school (%) | 60 21 9 (1953) 70.6 | 11- |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ Exports | 950 190 1) 2.2 SUS)(1971) 182 | Land (1968) Total (1000 km²) % arable % pasture % cash crops Land Distribution (% or 0-1 hectare 1-4 hectares | 2.8 10.3 f farms by size)(1950) 28.6 30.6 | Expenditures (1969) total (million \$US) % on lst level % on 2nd level % on 3rd level Level completed, age 15+ no school (%) partial lst level | 60 21 9 (1953) 70.6 18.5 | 11- |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ Exports Imports Balance | 950 190 1) 2.2 SUS)(1971) 182 165 +17 | Land (1968) Total (1000 km²) % arable % pasture % cash crops Land Distribution (% or 0-1 hectare 1-4 hectares 5-9 hectares | 2.8 10.3 f farms by size)(1950) 28.6 30.6 10.1 | Expenditures (1969) total (million \$US) % on lst level % on 2nd level % on 3rd level Level completed, age 15+ no school (%) partial lst level finished lst level | 60 21 9 (1953) 70.6 18.5 5.2 | 11- |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ Exports Imports Balance Government Expenditures | 950 190 1) 2.2 (us)(1971) 182 165 +17 (1969) | Land (1968) Total (1000 km²) % arable % pasture % cash crops Land Distribution (% or 0-1 hectare 1-4 hectares 5-9 hectares 10-49 hectares | 2.8 10.3 f farms by size)(1950) 28.6 30.6 10.1 12.4 | Expenditures (1969) total (million \$US) % on lst level % on 2nd level % on 3rd level Level completed, age 15+ no school (%) partial lst level | 60 21 9 (1953) 70.6 18.5 | |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ Exports Imports Balance Government Expenditures Total (% GNP) | 950 190 1) 2.2 (SUS)(1971) 182 165 +17 (1969) 11.2 | Land (1968) Total (1000 km²) % arable % pasture % cash crops Land Distribution (% or 0-1 hectare 1-4 hectares 5-9 hectares 10-49 hectares 50-99 hectares | 2.8 10.3 f farms by size)(1950) 28.6 30.6 10.1 12.4 3.2 | Expenditures (1969) total (million \$US) % on lst level % on 2nd level % on 3rd level Level completed, age 15+ no school (%) partial lst level finished lst level partial 2nd level | 60 21 9 (1953) 70.6 18.5 5.2 | 11- |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ Exports Imports Balance Government Expenditures Total (% GNP) Health (% Govt. Exp | 950 190 1) 2.2 (SUS)(1971) 182 165 +17 (1969) 11.2 | Land (1968) Total (1000 km²) % arable % pasture % cash crops Land Distribution (% or 0-1 hectare 1-4 hectares 5-9 hectares 10-49 hectares | 2.8 10.3 f farms by size)(1950) 28.6 30.6 10.1 12.4 | Expenditures (1969) total (million \$US) % on 1st level % on 2nd level % on 3rd level Level completed, age 15+ no school (%) partial 1st level finished 1st level partial 2nd level Adult Literacy (1960) | 60 21 9 (1953) 70.6 18.5 5.2 5.2 | 11- |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ Exports Imports Balance Government Expenditures Total (% GNP) Health (% Govt. Exp | 950 190 1) 2.2 (SUS)(1971) 182 165 +17 (1969) 11.2 (1) 4.1 | Land (1968) Total (1000 km²) % arable % pasture % cash crops Land Distribution (% or 0-1 hectare 1-4 hectares 5-9 hectares 10-49 hectares 50-99 hectares 100+ hectares | 2.8 10.3 f farms by size)(1950) 28.6 30.6 10.1 12.4 3.2 13.5 | Expenditures (1969) total (million \$US) % on 1st level % on 2nd level % on 3rd level Level completed, age 15+ no school (%) partial 1st level finished 1st level partial 2nd level Adult Literacy (1960) male | 60 21 9 (1953) 70.6 18.5 5.2 5.2 | |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ Exports Imports Balance Government Expenditures Total (% GNP) Health (% Govt. Exp | 950 190 1) 2.2 (SUS)(1971) 182 165 +17 (1969) 11.2 | Land (1968) Total (1000 km²) % arable % pasture % cash crops Land Distribution (% or 0-1 hectare 1-4 hectares 5-9 hectares 10-49 hectares 50-99 hectares 100+ hectares Food Trade (\$100,000 Us | 2.8 10.3 f farms by size)(1950) 28.6 30.6 10.1 12.4 3.2 13.5 | Expenditures (1969) total (million \$US) % on 1st level % on 2nd level % on 3rd level Level completed, age 15+ no school (%) partial 1st level finished 1st level partial 2nd level Adult Literacy (1960) | 60 21 9 (1953) 70.6 18.5 5.2 5.2 | |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ Exports Imports Balance Government Expenditures Total (% GNP) Health (% Govt. Exp | 950 190 1) 2.2 (SUS)(1971) 182 165 +17 (1969) 11.2 (1) 4.1 | Land (1968) Total (1000 km²) % arable % pasture % cash crops Land Distribution (% or 0-1 hectare 1-4 hectares 5-9 hectares 10-49 hectares 50-99 hectares 100+ hectares Food Trade (\$100,000 Use Exports | 2.8 10.3 f farms by size)(1950) 28.6 30.6 10.1 12.4 3.2 13.5 S)(1970) 79 | Expenditures (1969) total (million \$US) % on 1st level % on 2nd level % on 3rd level Level completed, age 15+ no school (%) partial 1st level finished 1st level partial 2nd level Adult Literacy (1960) male | 60 21 9 (1953) 70.6 18.5 5.2 5.2 | |
| Gross National Product (total (billion \$US) per capita (\$US) growth rate (1965-7) Foreign Trade (million \$ Exports Imports Balance Government Expenditures Total (% GNP) Health (% Govt. Exp | 950 190 1) 2.2 (SUS)(1971) 182 165 +17 (1969) 11.2 (1) 4.1 | Land (1968) Total (1000 km²) % arable % pasture % cash crops Land Distribution (% or 0-1 hectare 1-4 hectares 5-9 hectares 10-49 hectares 50-99 hectares 100+ hectares Food Trade (\$100,000 Us | 2.8 10.3 F farms by size)(1950) 28.6 30.6 10.1 12.4 3.2 13.5 S)(1970) 79 298 | Expenditures (1969) total (million \$US) % on 1st level % on 2nd level % on 3rd level Level completed, age 15+ no school (%) partial 1st level finished 1st level partial 2nd level Adult Literacy (1960) male | 60 21 9 (1953) 70.6 18.5 5.2 5.2 | |

BRAZIL

| NUTRITION | MORBIDITY AND MORTALITY | • • • • • • • • • • • • • • • • • • • |
|--|---|---|
| Food Availability (1970) Calories 2800 Protein (gm) 67 Iron (mg) Vitamin A (IU) Food Intake (1970) Calories 2566 Protein (gm) 77 Iron (mg) Vitamin A (IU) | Mortality (deaths/100,000, all ages) Respiratory Diarrheal Measles Tuberculosis Maternal/1000 live births Leading causes of child deaths (1973) 1. Nutritional 2. Respiratory 3. Diarrheal | Disease Incidences (Cases/100,000 children/year) Respiratory 410.6 (1969) Diarrheal 33000 Measles 39.5 (1969) Pellagra Beriberi Scurvy Rickets Goiter Kwashiorkor |
| Gomez classification (1967-70) Normal 1st degree 2nd degree 18.9 3rd degree 6.3 Birth weights by sex Average (gms) | 4. "Other" infections 5. "External causes" 6. Measles 7. Whooping Cough 8. Septicemia 9. Tuberculosis 10. Moniliasis Child mortality (deaths/1000, all causes) age 0-30 days (1966) 11.8 | Marasmus Keratomalacia Anemias Intestinal parasites Tuberculosis Hemoglobin Levels % defi- % def. mean cient & low (gm/ml) Age (yr) |
| Most severe deficiencies 1. Vitamin A 2. Calories 3. Protein 4. Iodine 5. Calcium | 1-12 months(1970)110.0 1-4 years (1970) 9.2 Life Expectancy (1965-70) at birth 60.7 at age 10 | 1/2-5 5-14 15-45, m. 15-45, f. pregnant lactating |

BRAZIL

| POPULATION (1970) | | LABOR AND INCOME | | HEALTH CARE | |
|--|------------------------------------|--|------------------------|---|---------------------------------------|
| Total (millions) % age (years) 0-1 1-4 | 93.2 13.9 | Income Distribution (% of income for lowest x% of | | Facilities hospitals (1967) hospital beds (1964) | 3235 321507 |
| 5-9 10-14 15-19 20-54 55-59 | 13.3 12 10 37 2.5 | X=20% 40% 60% 80% 90% | | population/bed(1964) total health units(196 population/unit population/unit-rural | 280 58) 7092 |
| 60-69 70+ | 3.1 1.7 | 95% | | Personnel (1966) doctors | 34251 |
| Density (persons/km ²)(197) % Urban (1970) Growth (rates/1000)(1970) crude birth rate crude death rate growth rate | 3) 12 45 37.8 9.5 28.3 | Unemployment Rate Labor Force % female (1966) 18 % in agriculture (1972) % Income Spent on Food | | <pre>% in rural areas population/doctor nurses % nurses, rural population/nurse midwives population/midwife</pre> | 2120 8212 2890 1992 48000 |
| MACROECONOMIC MEASURES | | AGRICULTURE | | EDUCATION | -13- |
| Gross National Product (1 total (billion \$US) per capita (\$US) growth rate (1965-71) | 44.3 460 | % arable | 12 .4 3 | Expenditures (1968) total (million \$US) % on 1st level % on 2nd level % on 3rd level | 208 7.4 15.4 53.3 |
| Foreign Trade (million \$U | | | (1060) | | (1970) |
| Exports Imports Balance | 2.7 3.0 3 | Land Distribution (% of far 0-10 hectare 44 1-4 hectares 5-9 hectares | rms by size)(1980) | Level completed, age 15+ no school (%) partial 1st level finished 1st level | 42.5 46.5 |
| Government Expenditures (Total (% GNP) Health (% Govt. Exp. Education | 8.1 | 10-49 hectares 10-99 hectares 44 100+ hectares 10 | | partial 2nd level Adult Literacy (1960) | 9.2 65.1 |
| Agriculture | | Imports 3 | 968) 12 19 14 | male female | 57.2 |

4. Iron 5.

BURMA

| POPULATION (1971) | | LABOR AND INCOME | | HEALTH CARE | | |
|--|--------------|-----------------------------------|---------------|--------------------------|--------|------|
| Total (millions) | 27.6 | Income Distribution (% of na | ational | Facilities (1971) | | |
| % age (years) 0-1 | 4.0 | income for lowest x% of po | | hospitals | 385 | |
| 1-4 | 11.5 | • | • | hospital beds | 23678 | |
| 5-9 | 11.5 | X=20% | | population/bed | 1165 | |
| 10-14 | 10.0 | 40% | | total health units | | |
| 15-19 | 11.5 | 60% | | population/unit | | |
| 20-54 | 43.8 | 80% | | population/unit-rura | 1 | |
| 55-59 | 3.1 | 90% | | | | |
| 60-64 | 3.2 | 95% | | Personnel (1971) | | |
| 65+ | 1.3 | 55.0 | | doctors | 3073 | |
| | | Unemployment Rate (1961) 5.8 | 8% | % in rural areas | | |
| Density (persons/km ²)(197 | 1) 41 | | i | population/doctor | 8975 | |
| % Urban (1971) | 10 | Labor Force | | nurses | 3944 | |
| Growth (rates/1000) | | % female | | % nurses, rural | | |
| crude birth rate | 40.3 | % in agriculture (1970) |) 64 | population/nurse | 6993 | |
| crude death rate | 17.4 | | | midwives | 4093 | |
| growth rate | 22.9 | % Income Spent on Food (1958) | , Rangoon) 66 | population/midwife | 6738 | |
| MACROECONOMIC MEASURES | | AGRICULTURE | , | EDUCATION | | -15- |
| Gross National Product (1 | .971) | Land (1968) | | Expenditures (1969) | | |
| total (billion \$US) | 2.43 | Total (1000 km ²) 678 | | total (million \$US) | 61.3 | |
| per capita (\$US) | 80 | % arable 27.3 | 3 | % on 1st level | 78 | |
| growth rate (1965-71 |) 0.1 | % pasture 0.6 | | % on 2nd level | 4 | |
| | • | % cash crops | | % on 3rd level | 17 | |
| Foreign Trade (million \$1 | JS) (1971) | • | | | | |
| Exports | 109 | Land Distribution (% of farm | ns by size) | Level completed, age 15+ | (1953) | |
| Imports | 162 · | 0-1 hectare | | no school (%) | 74.6 | |
| Balance | -53 | 1-4 hectares | | partial 1st level | 15.6 | , |
| | | 5-9 hectares | | finished 1st level | | |
| Government Expenditures | | 10-49 hectares | | partial 2nd level | 9.4 | |
| Total (% GNP)(1968) | 16.4 | 50-99 hectares | | • | | |
| Health (% Govt. Exp. |) (1972) 5.9 | 100+ hectares | | Adult Literacy (1954) | | |
| Education (1972) | 14.8 | | | male | 83.4 | |
| Agriculture | | Food Trade (\$100,000 US) (19 | 969) | female | 33.8 | |
| | | Exports 810. | .6 | | | |
| | | Imports 74. | .8 | | | |
| | | Production (% GNP) | | | | |

| NUTRITION | MORBIDITY AND MORTALITY | |
|--|--|---|
| Food Availability (1970) Calories 2560 | Mortality (deaths/100,000, all ages) (1968) Respiratory 198.0 | Disease Incidences (Cases/100,000 children/year) (1970) |
| Protein (gm) 66 Iron (mg) Vitamin A (IU) | Diarrheal 47.7 Measles 4.1 Tuberculosis Maternal/1000 live births | Respiratory Diarrheal Measles 232.9 Pellagra |
| Food Intake Calories Protein (gm) Iron (mg) Vitamin A (IV) | Leading causes of child deaths (1966) 1.Gastroenteritis 2.Pneumonia 3.Measles 4.Postnatal asphyxia | Beriberi Scurvy Rickets Goiter Kwashiorkor Marasmus |
| Gomez classification (1970-72) Normal 86.6 1st degree 13.2 2nd degree 3rd degree 0.2 | 5.Accidents 6.Congenital malformations 7.Whooping cough 8.Influenza 9.Meningitis (non-meningococcal) | Keratomalacia Anemias Intestinal parasites Tuberculosis |
| Birth weights by sex (1960) Average (gms) 3268 (m) 3119 (f) Below 2500 gms | 10.Bronchitis Child mortality (deaths/1000, all causes) age 0-30 days (1970) 33.4 1-12 months (1971)86.5 1-4 years (1971) 3.2 | ### Hemoglobin Levels ### defi- ### def. mean cient & low (gm/ml) ### Age (yr) 1/2-5 5-14 13.0 |
| Most severe deficiencies 1. 2. 3. | Life Expectancy (1969-70) at birth 60.48 (M); 66.01 (F) at age 10 | 15-45, m. 3.8 19.1 14.8 15-45, f. 22.8 85.5 12.9 pregnant lactating |

| P | OPULATION | | LABOR AND INCOME | | HEALTH CARE (1971) | | |
|------------------------------|--|-------------------------------------|-------------------------------------|-------------------------|-------------------------------|-------|-----|
| | otal (millions) (1973) | 10.73 | Income Distribution (% | | Facilities | | |
| % age (years) 0-1 (1971) 2.8 | | income for lowest x% of population) | | hospitals | 231 | | |
| 1-4 11.3 | | | | | hospital beds | 36700 | |
| | 5–9 | 13.3 | X=20% | | population/bed | 245 | |
| | 10-14 | 12.0 | 40% | | total health units | 1000 | |
| | 15-19 | 10.2 | 60% | | population/unit | 9995 | |
| | 20-54 | 40.5 | 80% | | population/unit-rural | | |
| | 55-59 | 3.0 | 90% | | | | |
| | 60-64 | 2.4 | 95% | | Personnel | | |
| | 65+ | 4.6 | | | doctors | 4462 | |
| | | | Unemployment Rate | | % in rural areas | | |
| ľ | ensity (persons/km ²)(1973 |) 14 | • • | • | population/doctor | 2015 | |
| | % Urban (1970) | 76 | Labor Force (1970) | | nurses | 18703 | |
| G | Frowth (rates/1000)(1971) | | % female | 29 | % nurses, rural | | |
| | crude birth rate | 25.0 | % in agriculture | 25 | population/nurse | | |
| | crude death rate | 8.8 | · · | | midwives | 1143 | |
| | growth rate | 16.2 | % Income Spent on Food | | population/midwife | | |
| M | MACROECONOMIC MEASURES | | AGRICULTURE | | EDUCATION | -17- | 7 7 |
| | Gross National Product (19 | 71) | Land | | Expenditures (1969) | | |
| | total (billion \$US) | 7.6 | Total (1000 km ²) (1 | 1971) 757 | total (million \$US) | 215.7 | |
| | per capita (\$US) | 760 | % arable (1965) | 5.9 | % on 1st level | 34 | |
| | growth rate (1965-71) | | % pasture (1965) | 14.8 | % on 2nd level | 15 | |
| | growth rate (1905-71) | | % cash crops | 14.0 | % on 3rd level | 38 | |
| . 15 | oreign Trade (million \$US | · (1971) | % cash crops | | % on the rever | | |
| F | | 1068 | I and Distriction /9 of | : famus bar adus) (106) | 5) Yeard amendated and 15: (1 | 1960) | |
| | Exports Imports | 908 | Land Distribution (% of 0-1 hectare | 17.8 | | 17 | |
| | Balance | +160 | 1-4 hectares | | no school (%) | 32 | |
| | ватапсе | +100 | | 31.0 | partial 1st level | 24 | , |
| _ | January Suman Addition - (1 | 070) | 5-9 hectares | 23.4 | finished 1st level | 14 | |
| · · | Government Expenditures (1 | | 10-49 hectares | 5.8 | partial 2nd level | 14 | |
| | Total (% GNP) | 23.3 | 50-99 hectares | 8.9 | (1069) | | |
| | Health (% Govt. Exp.) | | | | Adult Literacy (1968) | | |
| | Education | 10.6 (1969) | | . (1070) | male | 90 | |
| | Agriculture | | Food Trade (\$100,000 US | | female | 90 | |
| | | | Exports | 480 | | | |
| | | | Imports | 1483 | | | |
| | | | Production (% GNP) | 7 | | | |

COLOMBIA

| NUTRITION | MORBIDITY AND MORTALITY | · |
|---|---|---|
| Food Availability (1970) Calories 2140 | Mortality (deaths/100,000, all ages)(1967) Respiratory 149.9 | Disease Incidences (Cases/100,000 children/year) (1966) |
| Protein (gm) 50 | Diarrheal 113.3 | Respiratory 530.7 |
| Iron (mg) | Measles 11.9 | Diarrheal 190 |
| Vitamin A (IU) | Tuberculosis 18.5 | Measles 19800 |
| (, | Maternal/1000 live births 2.4 (1969) | |
| Food Intake (1961) | 1.00011100, 1000 2010 2010 | Beriberi |
| Calories 1068 | Leading causes of child deaths (1966) | = |
| Protein (gm) 31 | 1. Bronchitis | Scurvy |
| (8-) | | Rickets |
| (6) | 3.Diarrheal enteritis | Goiter Vynghiamkom 2340 |
| Vitamin A (IU) 391 | <u> </u> | RWASHIOTROL PCM |
| 01 -101 | 4."others" | Marasmus |
| Gomez classification | 5.perinatal | Keratomalacia 0 L |
| Normal 85.2 | 6. Whooping cough | Anemias ∞ |
| 1st degree | 7. Parasites and infections | Intestinal parasites 90000 (1960) |
| 2nd degree 13.5 | 8.Nutritional | Tuberculosis |
| 3rd degree 1.3 | 9.Measles | |
| | 10.Influenze | Hemoglobin Levels (1960) |
| Birth weights by sex | | % defi- % def. mean |
| Average (gms) | Child mortality (deaths/1000, all causes) | |
| - 0 (0) | age 0-30 days 36.4 | Age (yr) |
| Below 2500 gms | 1-12 months 91.3 | 1/2-5 |
| 2020W 2300 gmb | 1-4 years 12.8 (1968) | 5-14 |
| | 1-4 years 12.0 (1700) | |
| West sevens defined and a (10(1) | 145- F (1050 52) | 15-45, m. 6.9 39.3 14.1 |
| Most severe deficiencies (1961) | Life Expectancy (1950-52) | 15-45, f. |
| 1. Iodine (local) | at birth 44.18 (M); 45.95 (F) | pregnant |
| 2. Protein | at age 10 | lactating |
| 3. Riboflavin | | |
| 4. Thiamine | | |
| 5. Vitamin A | | |
| | | |

COLOMBIA

| POPULATION | | LABOR AND INCOME | HEALTH CARE |
|--|---|---|---|
| Total (millions) (1973) % age (years) 0-1 1-4 5-9 10-14 15-19 20-54 55-59 60-64 | 23.21 3.6 14.0 16.0 13.0 10.1 36.4 1.9 | Income Distribution (% of national income for lowest x% of population)(1962) X=20% 5.9 40% 14.9 60% 26.3 80% 43.3 90% 57.3 95% 87.3 | Facilities (1971) hospitals 773 hospital beds 46179 population/bed 472 total health units1120 population/unit 19932 population/unit-rural Personnel (1970) |
| 65+ Density (persons/km²) (1973 % Urban (1971) Growth (rates/1000) (1971) crude birth rate crude death rate growth rate | 3.0 | Unemployment Rate Labor Force % female (1965) 20 % in agriculture (1970) 45 % Income Spent on Food (1968) 40 | doctors 9468 % in rural areas 26 population/doctor 2161 nurses 19748 % nurses, rural 33 population/nurse 1036 midwives population/midwife |
| MACROECONOMIC MEASURES | | AGRICULTURE | EDUCATION 9 |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965-71) | 8.18 370 2.3 | Land (1970) Total (1000 km ²) 1139 % arable 4.6 % pasture 45.0 % cash crops | Expenditures (1969) total (million \$US) 73.8 % on 1st level 38 % on 2nd level 16 % on 3rd level 23 |
| Foreign Trade (million \$US) | (1971) | | |
| Exports Imports Balance Government Expenditures (1 | 674 921 -247 | Land Distribution (% of farms by size) (1960) 0-1 hectare 24.7 1-4 hectares 37.9 5-9 hectares 14.0 10-49 hectares 16.6 | Level completed, age 15+ (1951) no school (%) 39.9 partial 1st level 43.8 finished 1st level 7.5 partial 2nd level 8.0 |
| Total (% GNP)(1970) Health (% Govt. Exp.) Education Agriculture | 15.3 6.2 12.7 | 50-99 hectares 3.3 100+ hectares 3.5 Food Trade (\$100,000 US) (1970) Exports 4053 Imports 478 Production (% GNP) 28(1969) | Adult Literacy (1964) male 75 female 71 |

ECUADOR

| NUTRITION | | MORBIDITY AND MORTALITY | |
|-----------------------------|-----------|--|---|
| Food Availability (1970 |) 1970 | Mortality (deaths/100,000, all ages) (1969) Respiratory 247.6 | |
| Calories Protein (gm) | 46 | Diarrheal 81.0 | children/year) Respiratory 104.0 (1966) |
| Iron (mg) Vitamin A (IU) | | Measles 31.3 Tuberculosis 17.3(1970) Maternal/1000 live births 2.2(1965) | Diarrheal Measles Pellagra 38.2 (1966) |
| Food Intake (1960) | | | Beriberi |
| Calories | 1967 | Leading causes of child deaths (1970) | Scurvy |
| Protein (gm) | 57.9 | 1. Symptoms and other ill-defined condition | S Rickets |
| Iron (mg) | 19.3 | 2. Bronchitis | Goiter (regional) 21000 (1960) |
| Vitamin A (IU) | 4358 | 3. Enteritis and other Diarrhea | Kwashiorkor |
| * | | 4. Other diseases | Marasmus |
| Gomez classification (1 | .968–69) | Perinatal Mortality | Keratomalacia 0(1960) |
| Normal Normal | 71.4 | 6. Measles | Anemias |
| 1st degree | | 7. Other Infective and Parasitic diseases | Intestinal parasites |
| 2nd degree | 25.7 | 8. Pneumonia | Tuberculosis 55 (1960) |
| 3rd degree | 2.9 | 9. Whooping Cough 10.Influenza | H1-11 (1060) |
| Birth weights by sex | | 10.Ini Idenza | Hemoglobin Levels (1960) % defi- % def. mean |
| Average (gms) | | Child mortality (deaths/1000, all causes) | cient & low (gm/ml) |
| Average (gma) | | age 0-30 days (1970) 25.4 | Age (yr) |
| Below 2500 gms | | 1-12 months (1971) 77 | 1/2-5 19.2 47.3 13.7 |
| | | 1-4 years (1971) 16.0 | 5-14 41.7 77.8 12.1 |
| | | _ · , · · · · · · · · · · · · · · · · · | 15-45, m. 8.4 24.8 14.8 |
| Most severe deficiencie | s (1960) | Life Expectancy (1961-63) | 15-45, f. 18.2 49.1 13.5 |
| 1. Calcium | , | at birth 51.04 (M); 53.67 (F) | pregnant |
| 2. Thiamine 3. Iodine | | at age 10 | lactating |

4. Riboflavin

5.

ECUADOR

| POPULATION (1971) | | LABOR AND INCOME HEALTH CARE | |
|--|---|--|---|
| Total (millions) 6.3 | | Income Distribution (% of national | Facilities |
| % age (years) 0-1 | 3.3 | income for lowest x% of population | • • • • • • • • • • • • • • • • • • • |
| 1-4 | 13.8 | Income for money in or population | (1970) hospitals 199 hospital beds 14024 |
| 5-9 | 15.6 | X=20% | population/bed 434 |
| 10-14 | 12.4 | 40% | (1968) total health units 492 |
| 15-19 | 9.7 | 60% | population/unit 11197 |
| 20-54 | 38.0 | 80% | population/unit-rural |
| 55-59 | 2.0 | 90% | population/unit-rural |
| 60-64 | 2.0 | | Damage at (1070) |
| | 3.0 | 95% | Personnel (1970) |
| 65 + | 3.0 | the control of the co | doctors 2080 |
| Daniel 10 2 /1072 | \ 0.4 | Unemployment Rate | % in rural areas |
| Density (persons/km ²) (1973 | | · | population/doctor 2928 |
| % Urban (1971) | 38 | Labor Force | nurses 3711 |
| Growth (rates/1000) (1971) | 44.0 | % female (1965) 14 | % nurses, rural |
| crude birth rate | 44.9 | % in agriculture (1970) 54 | population/nurse |
| crude death rate | 11.4 | | midwives |
| growth rate | 33.5 | % Income Spent on Food 77 | population/midwife |
| | | | |
| MACROECONOMIC MEASURES | | AGRICULTURE | EDUCATION |
| | 1) | ************************************** | *************************************** |
| Gross National Product (197 | 1) 1.96 | Land (1968) | Expenditures (1969) |
| Gross National Product (197 total (billion \$US) | | Land (1968) Total (1000 km ²) 284 | Expenditures (1969) total (million \$US) 54.1 |
| Gross National Product (197 total (billion \$US) per capita (\$US) | 1.96 | Land (1968) Total (1000 km ²) 284 % arable 10.0 | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 |
| Gross National Product (197 total (billion \$US) | 1.96 310 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) | 1.96 310 2.6 | Land (1968) Total (1000 km ²) 284 % arable 10.0 | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) | 1.96 310 2.6 (1971) | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) Exports | 1.96 310 2.6 (1971) 218 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops Land Distribution (% of farms by siz | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 e)(1954) Level completed, age 15+(1962) |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) Exports Imports | 1.96 310 2.6 (1971) 218 247 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops Land Distribution (% of farms by siz 0-1 hectare 27 | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 e)(1954) Level completed, age 15+(1962) no school (%) 33 |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) Exports | 1.96 310 2.6 (1971) 218 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops Land Distribution (% of farms by siz 0-1 hectare 27 1-4 hectares 46 | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 e)(1954) Level completed, age 15+(1962) no school (%) 33 partial 1st level 43 |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) Exports Imports Balance | 1.96 310 2.6 (1971) 218 247 -31 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops Land Distribution (% of farms by siz 0-1 hectare 27 1-4 hectares 46 5-9 hectares 11 | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 e)(1954) Level completed, age 15+(1962) no school (%) 33 partial 1st level 43 finished 1st level 14 |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) Exports Imports Balance Government Expenditures (19 | 1.96 310 2.6 (1971) 218 247 -31 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops Land Distribution (% of farms by siz 0-1 hectare 27 1-4 hectares 46 5-9 hectares 11 10-49 hectares 12 | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 e)(1954) Level completed, age 15+(1962) no school (%) 33 partial 1st level 43 |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) Exports Imports Balance Government Expenditures (19 Total (% GNP) | 1.96 310 2.6 (1971) 218 247 -31 71) 15.9 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops Land Distribution (% of farms by siz 0-1 hectare 27 1-4 hectares 46 5-9 hectares 11 10-49 hectares 12 50-99 hectares 2 | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 e)(1954) Level completed, age 15+(1962) no school (%) 33 partial 1st level 43 finished 1st level 14 partial 2nd level 9 |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) Exports Imports Balance Government Expenditures (19 Total (% GNP) Health (% Govt. Exp.) | 1.96 310 2.6 (1971) 218 247 -31 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops Land Distribution (% of farms by siz 0-1 hectare 27 1-4 hectares 46 5-9 hectares 11 10-49 hectares 12 | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 e)(1954) Level completed, age 15+(1962) no school (%) 33 partial 1st level 43 finished 1st level 14 partial 2nd level 9 Adult Literacy (1962) |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) Exports Imports Balance Government Expenditures (19 Total (% GNP) Health (% Govt. Exp.) Education | 1.96 310 2.6 (1971) 218 247 -31 71) 15.9 2.5 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops Land Distribution (% of farms by siz 0-1 hectare 27 1-4 hectares 46 5-9 hectares 11 10-49 hectares 12 50-99 hectares 2 100+ hectares 2 | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 e)(1954) Level completed, age 15+(1962) no school (%) 33 partial 1st level 43 finished 1st level 14 partial 2nd level 9 Adult Literacy (1962) male 68 |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) Exports Imports Balance Government Expenditures (19 Total (% GNP) Health (% Govt. Exp.) | 1.96 310 2.6 (1971) 218 247 -31 71) 15.9 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops Land Distribution (% of farms by siz 0-1 hectare 27 1-4 hectares 46 5-9 hectares 11 10-49 hectares 12 50-99 hectares 2 100+ hectares 2 Food Trade (\$100,000 US) (1970) | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 e)(1954) Level completed, age 15+(1962) no school (%) 33 partial 1st level 43 finished 1st level 14 partial 2nd level 9 Adult Literacy (1962) |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) Exports Imports Balance Government Expenditures (19 Total (% GNP) Health (% Govt. Exp.) Education | 1.96 310 2.6 (1971) 218 247 -31 71) 15.9 2.5 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops Land Distribution (% of farms by siz 0-1 hectare 27 1-4 hectares 46 5-9 hectares 11 10-49 hectares 12 50-99 hectares 2 100+ hectares 2 Food Trade (\$100,000 US) (1970) Exports 1890 | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 e)(1954) Level completed, age 15+(1962) no school (%) 33 partial 1st level 43 finished 1st level 14 partial 2nd level 9 Adult Literacy (1962) male 68 |
| Gross National Product (197 total (billion \$US) per capita (\$US) growth rate (1965- 71) Foreign Trade (million \$US) Exports Imports Balance Government Expenditures (19 Total (% GNP) Health (% Govt. Exp.) Education | 1.96 310 2.6 (1971) 218 247 -31 71) 15.9 2.5 | Land (1968) Total (1000 km²) 284 % arable 10.0 % pasture 7.8 % cash crops Land Distribution (% of farms by siz 0-1 hectare 27 1-4 hectares 46 5-9 hectares 11 10-49 hectares 12 50-99 hectares 2 100+ hectares 2 Food Trade (\$100,000 US) (1970) | Expenditures (1969) total (million \$US) 54.1 % on 1st level 50 % on 2nd level 36 % on 3rd level 12 e)(1954) Level completed, age 15+(1962) no school (%) 33 partial 1st level 43 finished 1st level 14 partial 2nd level 9 Adult Literacy (1962) male 68 |

EL SALVADOR

| NUTRITION | MORBIDITY AND MORTALITY | |
|---------------------------------------|---|--|
| Food Availability (1970) Calories 185 | Mortality (deaths/100,000, all ages) (1968) Respiratory 108.3 | Disease Incidences (Cases/100,000 children/year) |
| Protein (gm) 4 | • | Respiratory 1944 (1969) |
| Iron (mg) | Measles 11.5 | Diarrheal 126 (1965) |
| Vitamin A (IU) | Tuberculosis 14.1 | Measles 260 (1970) |
| 11 (10) | Maternal/1000 live births 0.7 (1969) | Pellagra |
| Food Intake (1968) | | Beriberi |
| Calories 220 | Leading causes of child deaths (1970) | Scurvy |
| Protein (gm) 69 | | Rickets |
| Iron (mg) 13 | | Goiter |
| Vitamin A (IU) | 3. diseases of digestive tract | Kwashiorkor |
| · 200m2n 12 (20) | 4. Bronchitis | Marasmus |
| Gomez classification (1967) | 5. Pneumonia | Keratomalacia |
| Normal 74. | - · · · · · · · · · · · · · · · · · · · | Anemias |
| 1st degree | 7. Measles | Intestinal parasites 80000 (1969) |
| 2nd degree 22. | 8. Influenza | Tuberculosis 130 (1970) |
| 3rd degree 3. | | |
| | 10.Whooping Cough | Hemoglobin Levels (1969) |
| Birth weights by sex (1968) | | % defi- % def. mean |
| Average (gms) 320 | Child mortality (deaths/1000, all causes) | (1970) cient & low (gm/ml) |
| | age 0-30 days 18.4 | Age (yr) 0-11 mos. 0 0 |
| Below 2500 gms | 1-12 months 52.5 | 1-3 yrs. 11 13 |
| J | 1-4 years 10.0 | 3-11 yrs. 5 7 |
| | • | 18-45, m. 8 22 |
| Most severe deficiencies (196 | Life Expectancy (1960-61) | 18-45, f., 4 6 |
| Protein-Calorie | at birth 56.56 (M); 60.42 (F) | pregnant 0 1 |
| 2. Vitamin A | at age 10 | lactating |
| 3. Riboflavin | | 12-17, m. 6 42 |
| 4. Iron | | 12-17, f. 3 3 |
| 5. Iodine | | |

EL SALVADOR

| POPULATION (1971) | | LABOR AND INCOME | HEALTH CARE | |
|--|--------|---|-----------------------------------|------|
| Total (millions) | 3.67 | Income Distribution (% of national | Facilities | |
| % age (years) 0-1 | 3.9 | income for lowest x% of population) | (1972) hospitals 75 | |
| 1–4 | 13.3 | | hospital beds 6398 | |
| 5-9 | 15.4 | X=20% | population/bed 588 | |
| 10-14 | 12.3 | 40% | (1968) total health units 183 | |
| 15-19 | 9.7 | 60% | population/unit | |
| 20-54 | 36.0 | 80% | population/unit-rural | |
| 55-59 | 2.0 | 90% | population, unit-lular | |
| 60-64 | 2.3 | 95% | Personnel (1972) | |
| 65+ | 3.1 | 55% | doctors 952 | |
| 031 | 3.1 | Unemployment Rate (1971) 13.1% | % in rural areas | |
| Density (persons/km ²) (1971 |) 168 | onemproyment Rate (1971) 13.1% | population/doctor 3950 | |
| % Urban (1971) | 39 | Labor Force (1966) | - · | |
| Growth (rates/1000) (1971) | 33 | % female 13 | | |
| crude birth rate | 40 | % in agriculture 47 | % nurses, rural | |
| crude death rate | 10 | % in agriculture 4/ | population/nurse | |
| growth rate | 30 | % Tracero Crant on Food (105%) 66 | midwives | • |
| growth rate | 30 | % Income Spent on Food (1954) 66 | population/midwife | |
| MACROECONOMIC MEASURES | | AGRICULTURE | EDUCATION | -23- |
| Gross National Product (197 | 1) | Land (1971) | Expenditures (1971) | ı |
| total (billion \$US) | 1.19 | Total (1000 km ²) 21 | total (million \$US) 23 | |
| per capita (\$US) | 320 | % arable 23 | % on 1st level 64 | |
| growth rate (1965- 71) | 0.5 | % pasture 31 | % on 2nd level 8 | |
| g | 0.5 | % cash crops 7 | % on 3rd level 16 | |
| Foreign Trade (million \$US) | (1971) | % cash crops / | % ou aid reset to | |
| Exports | 228 | Land Distribution (% of farms by size)(1967 | ') Level completed, age 15+(1971) | |
| Imports | 214 - | 0-1 hectare | no school (%) 67 | |
| Balance | +14 | 1-4 hectares 69 | partial 1st level 24 | |
| | | 5-9 hectares 13 | finished 1st level 6 | • |
| Government Expenditures (19 | 71) | 10-49 hectares 14 | partial 2nd level 3 | |
| Total (% GNP) | 12.1 | 50-99 hectares 2 | partial and level | |
| Health (% Govt. Exp.) | 25.0 | 100+ hectares 2 | Adult Literacy (1971) | |
| Education | 11 | 1007 Hectales - | male 58% | |
| Agriculture | 16 | Food Trade (\$100,000 US)(1970) | female 58 % | |
| | | Exports 251 | Temate 50 % | |
| | | Imports 290 | | |
| | | Production (% GNP) 26 | | |
| | | 110ddctton (% GNr) | | |

GUATEMALA

| NUTRITION | | MORBIDITY AND MORTALITY | | • | | | |
|--------------------------------------|--------|--|------------|-------------------------|--------|-------------|--------|
| Food Availability (1969) Calories | 1952 | Mortality (deaths/100,000, all ages) (1973) Respiratory 235 | | incidences dren/year | | /100,000 | |
| Protein (gm) | 82 | Diarrheal 329 | Respirato | | | 630.4 | (1969) |
| Iron (mg) | 14.4 | Measles 21.2 | Diarrheal | • | | | (1969) |
| Vitamin A (IU) | | Tuberculosis 44 | Measles | | | | (1970) |
| | | Maternal/1000 live births 2.0 | Pellagra | | | | |
| Food Intake (1969) | • | • | Beriberi | | | | |
| Calories | 2018 | Leading causes of child deaths (1969) | Scurvy | | | | |
| Protein (gm) | 62.3 | 1. Diarrhea | Rickets | | | | |
| Iron (mg) | 143 | <pre>2. "symptoms ill defined"</pre> | Goiter | | | 5000 | (1970) |
| Vitamin A (IU) | | 3. Influenza | Kwashiork | or | | | |
| | | 4. Other infections and parasites | Marasmus | | | | |
| Gomez classification | | 5. Pneumonia | Keratomal | acia | | | |
| Normal | 67.6 | 6. Measles | Anemias | | | | |
| 1st degree | | 7. Whooping Cough | Intestina | l parasit | es | 90000+ | (1970) |
| 2nd degree | 26.5 | 8. Nutritional deficiencies | Tuberculo | sis | | 67.9 | (1970) |
| 3rd degree | 5.9 | 9. Perinatal | | | | | |
| · | - 4 | 10. Bronchitis | Hemoglobi | n Levels | (1969) | | .1. |
| Birth weights by sex (196) | | | | % defi- | % def. | mean | 24 |
| Average (gms) | 3200 | Child mortality (deaths/1000, all causes) | (1970) | cient | & 1ow | (gm/m1 |) ' |
| | | age 0-30 days 30.8 | Age (yr) | | | | - |
| Below 2500 gms | | 1-12 months 79.4 | 1-3 yrs. | 4 | 8 | 11.66-1 | |
| | | 1-4 years 7.3 (1969) | 3-11 | 3 | 8 | 12.76-1 | |
| | (10(0) | (1040.4%) | 18 -45, m. | | 12 | 13.71-1 | |
| Most severe deficiencies | (1969) | Life Expectancy (1963-65) | 18 -45, f. | | 8 | 13.71-1 | .4.93 |
| 1. Protein-calorie | | at birth 48.29 (M); 49.74 (F) | pregnant | 0 | 1 | | |
| 2. Vitamin A | | at age 10 | lactating | 2 | 8 | | |
| 3. Riboflavin | | | 12-17, m. | 25 | 35 | 13.3-15 | 5.7 |
| 4. Iron | | | 12-17, f. | 0 | 5 | 13.6-15 | 5.6 |
| 5. Iodine | | | | | | | |

GUATEMALA

| POPULATION | LABOR AND INCOME | HEALTH CARE |
|--|-------------------------------------|--|
| Total (millions) (1973) 5. % age (years) 0-1 (1971) 3. | Income Distribution (% of national | Facilities |
| | income for lowest x% of population, | (1968) hospitals 88 |
| 1-4 13. | 7 | (1970) hospital beds 14518 |
| 5-9 15. | | population/bed 358 |
| 10-14 12. | | (1968) total health units 258 |
| 15-19 10. | | population/unit 21050 |
| 20-54 36. | 80% | population/unit-rural |
| 55-59 2. | | p op a decident of the control of th |
| 60-64 2. | 95% | Personnel |
| 65+ 2. | | (1970) doctors 1435 |
| • | Unemployment Rate (1971) 0.7% | (1968) % in rural areas 14 |
| Density (persons/ km^2) (1973) 51 | | (1970) population/doctor 3617 |
| % Urban 34 | Labor Force (1966) | nurses 4246 |
| Growth (rates/1000) (1971) | % female 16 | % nurses, rural |
| crude birth rate 39 | % in agriculture 62 | population/nurse |
| crude death rate 15 | G | (1968) midwives 189 |
| growth rate 24 | % Income Spent on Food (1966) 40 | population/midwife28700 |
| MACROECONOMIC MEASURES | AGRICULTURE | EDUCATION 25 |
| Gross National Product (1971) | Land (1971) | • |
| total (billion \$US) 2. | | Expenditures (1971) |
| per capita (\$US) 39 | | total (million \$US)30 |
| growth rate (1965-71) 2. | | % on 1st level 55 |
| growth rate (1903-71) 2: | " Pastaze | % on 2nd level 16 |
| Foreign Trade (million \$US) (19 | % cash crops | % on 3rd level 13 |
| Exports 29 | | (1067) + + |
| Imports 28 | (N OI IGENIO D) OILO, | |
| Balance +1 | | |
| 1220000 | 5-9 hectares 10 | F |
| Government Expenditures (1971) | 10-49 hectares 8 | |
| Total (% GNP) 9. | | partial 2nd level 2 |
| Health (% Govt. Exp.) 9. | | (1971) |
| Education 16. | | Adult Literacy (1971) male 69 |
| Agriculture | Food Trade (\$100,000 US)(1970) | max c |
| | | female 56 |
| · | anpol es | |
| | Imports 30.3 Production (% GNP) 27 | |
| | rioduction (% GNF) | |

HAITI

| NUTRI | TION | | MORBIDITY AND MORTALITY | | | | | | |
|--------|----------------------|--------|--------------------------------|---------------------|-------------|---------|------------|------------|--------|
| Food | Availability (1964-6 | 66) | Mortality (deaths/100,000, al | 1 ages)(1961) | Disease Inc | idences | (Case | es/100,000 | |
| | Calories | 1930 | Respiratory | | childr: | en/year | <u>(</u>) | | |
| | Protein (gm) | 47.0 | Diarrheal | | Respiratory | - | , | | (1966) |
| | Iron (mg) | | Measles | | Diarrheal | | | | (1966) |
| | Vitamin A (IU) | | Tuberculosis | | Measles | | | 23.7 | (1970) |
| | | | Maternal/1000 live birth | s 1.54 | Pellagra | | | 100 | (1969) |
| Food | Intake | | | - | Beriberi | | | 0 | (1969) |
| | Calories (1970) | 1850 | Leading causes of child death | _s (1969) | Scurvy | | | 0 | (1969) |
| | Protein (gm) (1970) | 45 | 1.Gastroenteritis | | Rickets | | | 1000 | (1969) |
| | Iron (mg) (1959) | 11.7 | 2.Protein-Calorie Malnutrition | ı | Goiter | 1400- | -39000 | (regional) | (1969) |
| | Vitamin A (IU)(1959) | | 3. | | Kwashiorkor | (PCM) | | 31900 | |
| | = | 13.01 | 4. | | Marasmus | | | | |
| Gomez | classification (197 | 1) | 5. | | Keratomalac | ia | | | |
| | Normal | 68.1 | 6. | | Anemias | | | 1300 | (1969) |
| | 1st degree | | 7. | | Intestinal | parasit | tes | 70000 | (1960) |
| | 2nd degree | 25.9 | 8. | | Tuberculosi | | | 393 | (1969) |
| | 3rd degree | 6.0 | 9. | | | | | | |
| | | | 10. | | Hemoglobin | Levels | (1969) | • | -2 |
| Birth | weights by sex (19 | 962) | | | | defi- | | | 9 |
| | Average (gms) | 3050 | Child mortality (deaths/1000, | all causes)(19 | (62) c | ient | & 10w | (gm/m1) | • |
| | | | age 0-30 days | | Age (yr) | | | | |
| | Below 2500 gms | 14.9 | 1-12 months | 190 | 1/2-5 | | 20 | | |
| | - | | 1-4 years | 26.5 | 5-14 | | 12 | | |
| | | | • | | 15-45, m. | 12.6 | 27.2 | 2 | |
| Most | severe deficiencies | (1969) | Life Expectancy | | 15-45, f. | | | | |
| 1.Prot | tein | (1)0)) | at birth | | pregnant | 33 | | | |
| 2.Ca1 | | | at age 10 | | lactating | | | | |
| 3.Ribo | oflavin | | _ | | 6 | | | | |
| 4.Vita | amin A | | | | | | | | |
| | 4 | | | | | | | | |

5.Iodine

HEALTH CARE

LABOR AND INCOME

POPULATION

| | | | | • |
|---|----------|--|-------------------|-------------------------------|
| Total (millions) (1973) | 5.20 | Income Distribution (% of nati | onal | Facilities(1970) |
| % age (years) 0-1 (1971) | 3.8 | income for lowest x% of popu | lation) (1970) | hospitals 41 |
| 1-4 | 13.6 | | _ , , . , | hospital beds 3545 |
| 5-9 | 14.0 | X=20% | | population/bed 1374 |
| 10-14 | 11.8 | 40% | | total health units 253 |
| 15-19 | 10.1 | x 90 % 83% | 43 | population/unit 17055 |
| 20-54 | 39.0 | 180% 92% | 54 | population/unit-rural |
| 55-59 | 2.6 | ₩ 92% 20% 94% | 63 | population, anno 141111 |
| 60-64 | 2.0 | × 2 5% 99% | 87 | Personnel (1969) |
| 65 + | 3.1 | MAN 99% | . 07 | doctors 361 |
| 05+ | 3.1 | Inomalarment Pate (1060) | 1 1.0/ | % in rural areas |
| Density (persons/km ²)(1973 | \ 107 | Unemployment Rate (1960) | 1.4% | population/doctor 11952 |
| • • | | Tahan Panas | | • • |
| % Urban (1969) | 12 | Labor Force | 4.0 | nurses 639 |
| Growth (rates/1000)(1971) | /2 0 | % female (1950) | 49 | % nurses, rural |
| crude birth rate | 43.9 | % in agriculture (1970) | 77 | population/nurse 6752 |
| crude death rate | 19.7 | | | midwives 48 |
| growth rate | 24.2 | % Income Spent on Food | | population/midwife 89896 |
| MACROECONOMIC MEASURES | | AGRICULTURE | | EDUCATION |
| Gress National Product (19 | 71) | Land (1970) | | Expenditures (1966) |
| total (billion \$US) | 500 | Total (1000 km ²) | 28 | total (million \$US) 5. |
| per capita (\$US) | 120 | % arable | 13.3 | % on 1st level 77 |
| growth rate(1965-71) | -0.8 | % pasture | 18.0 | % on 2nd level 10 |
| 610wcm 14te(1905-71) | -0.0 | % cash crops | | % on 3rd level 4 |
| Foreign Trade (million \$US |) (1971) | % cash crops | | % on sid tever 4 |
| Exports | 40 | Land Distribution (% of farms | by size) | Level completed, age 15+ (195 |
| Imports | 53 | 0-1 hectare | (average is | no school (%) 81 |
| Balance | -13 | 1-4 hectares | 1 hectare) | partial 1st level 5 |
| | | 5-9 hectares | , | finished 1st level 10 |
| Government Expenditures (19 | 971) | 10-49 hectares | | partial 2nd level 4 |
| Total (% GNP) | 5.9 | 50-99 hectares | | partial and acveu |
| Health (% Govt. Exp.) | | 100+ hectares | | Adult Literacy (1950) |
| Education | 17.1 | TOOT HECCALES | | male 13 |
| | ±1 • ± | Food Trade (\$100,000 US) (1959) | | female 9 |
| | | | 255 | remare |
| Agriculture | | French et a | | |
| Agriculture | | Exports | 255 532 | |
| Agriculture | | Exports Imports Production (% GNP)(1962) | 532 49 | |

INDIA

| NUTRITION | MORBIDITY AND MORTALITY | |
|---|---|--|
| Food Availability(1969-70) Calories 1990 Protein (gm) 49 Iron (mg) Vitamin A (IU) | Mortality (deaths/100,000, all ages) (1970) Respiratory Diarrheal Measles Tuberculosis Maternal/1000 live births | children/year) Respiratory Diarrheal Measles Pellagra |
| Food Intake Calories Protein (gm) Iron (mg) Vitamin A (IU) | Leading causes of child deaths (1970) 1.Measles 2.Whooping Cough 3.Diarrhea and Enteritis 4.Bronchitis and Pneumonia | Beriberi Scurvy Rickets Goiter Kwashiorkor Marasmus |
| Gomez classification (1966-68) | 5.Influenza | Keratomalacia |
| Normal 82.0 1st degree 2nd degree 15.4 3rd degree 2.6 | 6.Accidents7.Diphtheria8.Scarlet Fever9.Gastric and Intestinal disorders | Anemias Intestinal parasites Tuberculosis |
| Birth weights by sex Average (gms) | 10.Respiratory Diseases Child mortality (deaths/1000, all causes) | Hemoglobin Levels % defi- % def. mean cient & low (gm/ml) |
| Below 2500 gms | age 0-30 days (1964) 15.9 1-12 months (1972) 139 1-4 years (1972) 8.2 | Age (yr) 1/2-5 5-14 15-45, m. |
| Most severe deficiencies 1. 2. 3. 4. | Life Expectancy at birth at age 10 | 15-45, f. pregnant lactating |

| POPULATION | LABOR AND INCOME | HEALTH CARE |
|--|--|--|
| Total (millions) (1973) 574.2 % age (years) 0-1 (1971) 2.6 1-4 9.7 | Income Distribution (% of national income for lowest x% of population) | Facilities (1968) hospitals 15731 hospital beds 325500 |
| 5-9 13.6 | X=20% | population/bed 1571 |
| 10-14 11.8 | 40% | total health units 25000 |
| 15-19 10.0 | 60% | population/unit |
| 20-54 44.2 | 80% | population/unit-rural |
| 55-59 3.0 | 90% | |
| 60-64 2.0 | 95% | Personnel (1970) |
| 65+ 3.1 | | doctors 112000 |
| _ | Unemployment Rate | % in rural areas |
| Density (persons/km ²) (1973) 175 | | population/doctor 4795 |
| % Urban (1971) 20 | Labor Force | nurses 66000 |
| Growth (rates/1000) (1971) | % female (1967) 33 | % nurses, rural |
| crude birth rate 43 | % in agriculture (1966) 70 | population/nurse |
| crude death rate 17 | - | midwives |
| growth rate 26 | % Income Spent on Food $(1957-8)$ 59 | population/midwife , |
| 8 | , Income spend on root | |
| MACROECONOMIC MEASURES | AGRICULTURE | EDUCATION 29 |
| Gross National Product (1971) | I and (1071) | Expenditures (1971) |
| | Land (1971) Total (1000 km ²) 3280 | total (million \$US) 615 |
| | Total (1000 km²) 3280 % arable 49 | |
| per capita (\$US) 110 | ., | % on 1st level 23 % on 2nd level 32 |
| growth rate(1965-71) 2.4 | % pasture 15 | |
| Taxable M 1 / 1111 APPA /1071) | % cash crops | % on 3rd level 24 |
| Foreign Trade (million \$US)(1971) | T 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | T . 1 . 1 . 1P. (1071) |
| Exports 203 | Land Distribution (% of farms by size) | Level completed, age 15+ (1971) |
| Imports 213 | 0-1 hectare | no school (%) 83 |
| Balance -10 | 1-4 hectares | partial 1st level 14 |
| | 5-9 hectares | finished 1st level |
| Government Expenditures (1971) | 10-49 hectares | partial 2nd level 1.9 |
| Total (% GNP) 17.7 | 50-99 hectares | |
| Health (% Govt. Exp.) 12 | 100+ hectares | Adult Literacy (1973) |
| Education 55 | | male 29 |
| Agriculture 6 | Food Trade (\$100,000 US) | female |
| | Exports (1970) 44.5 | |
| | Imports (1970) 51.8 | |
| | Production (% GNP) (1969) 45 | |

INDONESIA

| NUTRITION | MORBIDITY AND MORTALITY | |
|--|--|--|
| Food Availability (1970) Calories 1920 | Mortality (deaths/100,000, all ages) Respiratory | Disease Incidences (Cases/100,000 children/year) |
| Protein (gm) 43 | Diarrheal | Respiratory |
| Iron (mg) | Measles 0 | Diarrheal |
| Vitamin A (IU) | Tuberculosis | Measles 0.2 (1969) |
| m . 1 1 | Maternal/1000 live births | Pellagra |
| Food Intake | | Beriberi |
| Calories | Leading causes of child deaths | Scurvy |
| Protein (gm) | 1. | Rickets |
| Iron (mg) | 2. | Goiter |
| Vitamin A (IU) | 3. | Kwashiorkor |
| | 4. | Marasmus ! |
| Gomez classification (1968-69) | 5. | Keratomalacia Ö |
| Normal 85.2 | 6. | Anemias |
| 1st degree | 7. | Intestinal parasites |
| 2nd degree 13.0 | 8. | Tuberculosis |
| 3rd degree 1.8 | 9. | |
| | 10. | Hemoglobin Levels |
| Birth weights by sex | | % defi- % def. mean |
| Average (gms) | Child mortality (deaths/1000, all causes) | (1972) cient & low (gm/m1) |
| • | age 0-30 days | Age (yr) |
| Below 2500 gms | 1-12 months 125 | 1/2-5 |
| | 1-4 years | 5-14 |
| | | 15-45, m. |
| Most severe deficiencies(1972) | Life Expectancy | 15-45, f. |
| 1. | at birth | pregnant |
| 2. | at age 10 | lactating |
| 3. | • | |
| 4. | | |
| 5. | | · |
| | | |

INDONESIA

| POPULATION . | | LABOR AND INCOME | | HEALTH CARE | |
|--|------------------------------------|---|-------------------|---|-----------------------|
| % age (years) 0-1 (1971) 1-4 5-9 | 24.6 4.6 13.1 15.9 8.5 | Income Distribution (% of national income for lowest x% of population) X=20% | | Facilities (1971) hospitals hospital beds population/bed | 1052 76938 1484 |
| 10-14 15-19 20-54 55-59 | 8.0 43.4 2.0 | 40% 60% 80% 90% | | total health units population/unit population/unit-rur | al |
| 60-64 65+ | 2.0 2.5 | 95% Unemployment Rate (1971) | 5.8% | Personnel (1971) doctors % in rural areas | 3994 |
| % Urban (1971) Growth (rates/1000)(1971) | 84 17 | Labor Force (1967) % female | 36 | population/doctor nurses % nurses, rural | 27561 13241 |
| crude birth rate crude death rate growth rate | 48 19 28 | <pre>% in agriculture % Income Spent on Food</pre> | 72 58 | population/nurse midwives population/midwife | 9029 5948 20034 |
| MACROECONOMIC MEASURES | | AGRICULTURE | • | EDUCATION | 1 3 1 |
| Gross National Product (1971 total (billion \$US) per capita (\$US) growth rate (1965-71) | 9.46 80 3.4 | Land (1971) Total (1000 km²) % arable % pasture % cash crops | 1491 10 4 | Expenditures (1960) total (million \$US) % on lst level % on 2nd level % on 3rd level | 57 |
| Foreign Trade (million \$US)(| (1971) | % Cash Clops | | % On Sid Tevel | • |
| Exports Imports | 810 883 -73 | Land Distribution (% of farms 0-1 hectare 1-4 hectares 5-9 hectares | by size) | Level completed, age 25+ no school (%) partial 1st level | 75.5 15.0 |
| , , | (1) 2.2 .06 | 10-49 hectares 50-99 hectares 100+ hectares | | finished 1st level partial 2nd level | 7.6 1.9 |
| | 1.0 | Food Trade (\$100,000 US)(1968) Exports Imports Production (% GNP)(1970) | 112 57.8 48 | Adult Literacy (1961) male female | 63 |

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JORDAN

| NUTRITION | MORBIDITY AND MORTALITY | |
|---|---|---|
| Food Availability (1964-66) | Mortality (deaths/100,000, all ages) (1970) | |
| Calories 2400 | Respiratory | children/year) (1966) |
| Protein (gm) 65 | Diarrheal 23.5 | Respiratory 39.3 |
| Iron (mg) | Measles 6.9 | Diarrheal 18.5 |
| Vitamin A (IU) | Tuberculosis 2.4 | Measles 86.5 |
| | Maternal/1000 live births (1965) 0.9 | Pellagra |
| Food Intake | | Beriberi |
| Calories | Leading causes of child deaths (1966) | Scurvy |
| Protein (gm) | Gastroenteritis | Rickets |
| Iron (mg) | 2. Pneumonia | Goiter |
| Vitamin A (IU) | 3. Bronchitis | Kwashiorkor |
| | 4. Measles | Marasmus |
| Gomez classification (1963-65) | 5. Accidents | Keratomalacia |
| Normal 43.9 | 6. Diseases of the heart | Anemias |
| 1st degree 46.8 | 7. Intestinal obstruction and hernia | Intestinal parasites |
| 2nd degree | 8. Non-meningococcal meningitis | Tuberculosis |
| 3rd degree 9.3 | 9. Anemias | |
| | 10. Vascular lesions affecting CNS | Hemoglobin Levels |
| Birth weights by sex (1962) | | % defi- % def. mean |
| Average (gms) 3300 m | Child mortality (deaths/1000, all causes) | cient & low (gm/ml) |
| 3180 f | | Age (yr) |
| Below 2500 gms 6.6% m | 7 (- 1) | 1/2-5(1962) 74.3 10.97 |
| 7.9% f | · · · · · · · · · · · · · · · · · · · | 5-14(1963) 22.9 49.3 12.6 |
| / • 7/ ₀ L | . 1-4 years (1970) 2.2 | 15-45, m. 7.3 29.3 14.2 |
| Most severe deficiencies(1962) | Iffo Europeanou | 15-45, f. 29.3 68.3 12.4 |
| | Life Expectancy | · • · · · · · · · · · · · · · · · · · · |
| 1 Calories | at birth | |
| 2. Protein | at age 10 | lactating 33.3 53.3 12.4 |
| | · | |
| 3. Vitamin A | | |
| 3. Vitamin A 4. Riboflavin 5. Iron? anemias | | |

JORDAN

| POPULATION | | LABOR AND INCOME | | HEALTH CARE | |
|---|-----------|--|-----------------|---------------------------------|----------|
| Total (millions) (1973) % age (years) 0-1 (1971) | 2.56 | Income Distribution (% of nati income for lowest x% of popu | onal lation) | Facilities (1971) hospitals | 35 |
| 1-4 | 19.5 | | | hospital beds population/bed | 1850 |
| 5-9 | 15.4 | X=20% | | total health units | 1287 |
| 10-14 | 12.2 | 40% | | | |
| 15-19 | 10.3 | 60% | | population/unit | a1 |
| 20-54 | 35.4 | 80% | | population/unit-rur | a1 |
| 55-59 | 2.0 | 90% | | 7 (1071) | |
| 60-64 | 1.7 | 95% | | Personnel (1971) | 826 |
| 65+ | 3.5 | | | doctors % in rural areas | 020 |
| ^ | | Unemployment Rate | | | 2881 |
| Density (persons/km ²) (1973 |) 26 | | • | population/doctor | 1731 |
| % Urban (1969) | 44 | Labor Force | | nurses | 1/31 |
| Growth (rates/1000) (1971) | | % female (1960) | 6 | % nurses, rural | |
| crude birth rate | 44.6 | % in agriculture (1970) | 39 | population/nurse | 500 |
| crude death rate | 16.0 | | | midwives | 300 |
| growth rate | 28.6 | % Income Spent on Food (1964) | 52 | population/midwife | |
| MACROECONOMIC MEASURES | | AGRICULTURE | , | EDUCATION | |
| | | - 1 | | Expenditures (1969) | |
| Gross National Product (197 | | Land Total (1000 km ²) (1971) | 98 | total (million \$US) | 19.0 |
| total (billion \$US) | .620 | | | % on 1st level | 27.0 |
| per capita (\$US) | 260 | % arable (1970) | 11.6 1.0 | % on 2nd level | 80 |
| growth rate(1965-71) | -3.5 | % pasture % cash crops | 1.0 | % on 3rd level | 12 |
| Foreign Trade (million \$US | :) (1971) | - | | | |
| _ | 34 | Land Distribution (% of farms | by size) (1953) | Level completed, age 15+ | - (1961) |
| Exports Imports | 184 | 0-1 hectare | | no school (%) | 00.3 |
| Balance | -150 | 1-4 hectares | 47.7 | partial 1st level | 6.1 |
| ватапсе | 130 | 5-9 hectares | 23.2 | finished 1st level | 10.5 |
| Community Franchistation (19 | 971) | 10-49 hectares | 26.6 | partial 2nd level | 14.1 |
| Government Expenditures (19 | 36.9 | 50-99 hectares | 1.8 | • | |
| Total (% GNP) | | 100+ hectares | 0.7 | Adult Literacy (1961) | |
| Health (% Govt. Exp.) | 9.6 | TOUT NECLATES | | male | 50.1 |
| Education | 9.0 | Food Trade (\$100,000 US) (1970 | | female | 15.2 |
| Agriculture | | | 164 | | |
| | | Exports | 548 | | |
| | | Imports Production (% GNP) (1968) | | | |
| | • | LIGHTELION (W GMI) (1900) | | | |

KENYA

| NUTRITION | MORBIDITY AND MORTALITY | |
|---------------------------------------|--|--|
| Food Availability(1970) Calories 2200 | Mortality (deaths/100,000, all ages) (1970) Respiratory | Disease Incidences (Cases/100,000 children/year) |
| Protein (gm) 68 | Diarrheal | Respiratory 107.6 (1966) |
| Iron (mg) | Measles 18.7 | Diarrheal 339.8 (1966) |
| Vitamin A (IU) | Tuberculosis 5.4 | Measles 156.1 (1966) |
| | Maternal/1000 live births | Pellagra |
| Food Intake | • | Beriberi |
| Calories | Leading causes of child deaths | Scurvy |
| Protein (gm) | 1. | Rickets |
| Iron (mg) | 2. | Goiter |
| Vitamin A (IU) | 3. | Kwashiorkor |
| , | 4. | Marasmus |
| Gomez classification (1968) | 5. | Keratomalacia |
| Normal 74.0 | 6. | Anemias |
| 1st degree | 7. | Intestinal parasites |
| 2nd degree 25.0 | 8. | Tuberculosis 58.7 (1970) |
| 3rd degree 1.0 | 9. | 30.7 (1970) |
| , | 10. | Hemoglobin Levels |
| Birth weights by sex | | % defi- % def. mean ω |
| Average (gms) | Child mortality (deaths/1000, all causes) | |
| | age 0-30 days (1970) 8.1 | Age (yr) cient & low (gm/ml) |
| Below 2500 gms | 1-12 months (1969) 63.7 | 1/2-5 |
| 202011 2000 8000 | 1-4 years (1971) 2.0 | 5-14 |
| | 1 4 years (1971) 2:0 | 15-45, m. |
| Most severe deficiencies (1964- | (9) Life Evnestancy | |
| 1. Calories | at birth | 15-45, f. |
| _ | | pregnant |
| 2. Vitamin A | at age 10 | lactating |
| 3. Protein | • | |
| 4. Calcium | | |
| 5. Riboflavin | | |

| POPULATION | | LABOR AND INCOME | | HEALTH CARE | |
|--|--|---|---------------------------|---|------------------------------|
| Total (millions) (1973) % age (years) 0-1 (1971) 1-4 5-9 10-14 15-19 20-54 55-59 | 12.48 2.8 14.4 15.7 13.2 9.9 37.0 1.6 | Income Distribution (% of nat: income for lowest x% of population) X=20% 40% 60% 80% 90% | | Facilities hospitals(1969) hospital beds (1970) population/bed(1970) total health units population/unit population/unit-run | 774 |
| 60-64 | 3.1 1.7 | 95% | | Personnel (1970) | 1407 |
| 65+ Density (persons/km ²)(1973 % Urban (1969) Growth (rates/1000)(1971) crude birth rate crude death rate | 3) 21 10 47.8 | Unemployment Rate (1968) Labor Force (1970) % female % in agriculture | 10% | doctors % in rural areas population/doctor nurses % nurses, rural population/nurse | 1437 7829 7634 1474 |
| growth rate | 17.5 30.3 | % Income Spent on Food (1963) | 40 | midwives population/midwife | 3347 3361 |
| MACROECONOMIC MEASURES | | AGRICULTURE | | EDUCATION | (|
| Gross National Product(197 total (billion \$US) per capita (\$US) growth rate(1965-71) | 1.85 160 4.3 | Land Total (1000 km²) (1971) % arable (1960) % pasture (1960) % cash crops | 583 2.5 6.8 | Expenditures (1965) total (million \$US) % on lst level % on 2nd level % on 3rd level | 41.2 54 30 13 |
| Foreign Trade (million \$US | (1971) | % Cash Clops | | % on 3rd level | 13 |
| Exports Imports Balance | 217 397 -180 | Land Distribution (% of farms 0-1 hectare 1-4 hectares | by size) (1970) | Level completed, age 15+ no school (%) partial 1st level | (1962) 70.5 |
| Government Expenditures Total (% GNP)(1971) | 20.6 | 0-19 hectares 20-49 hectares 50-99 hectares | 13.1 10.2 9.6 | finished 1st level partial 2nd level | 26.9 2.3 |
| Health (% Govt. Exp.) Education(1965) Agriculture (1965) | (1965) 5.4 18.4 8.8 | 100+ hectares Food Trade (\$100,000 US) (1970) Exports Imports Production (% GNP) | 67.1 1518 406 31 | Adult Literacy (1970) male female | 30 |

MALAYSIA

| NUTRITION | | MORBIDITY AND MORTALITY | • |
|------------------------|------------|--|--------------------------------------|
| Food Availability (196 | | Mortality (deaths/100,000, all ages) (19 | |
| Calories | 2190 | Respiratory | children/year) |
| Protein (gm) | 49 | Diarrheal | Respiratory |
| Iron (mg) | 9.5 | Measles | Diarrheal |
| Vitamin A (IU) | 2507 | Tuberculosis | Measles |
| | | Maternal/1000 live births 1.6 | Pellagra |
| Food Intake | | | Beriberi |
| Calories | | Leading causes of child deaths | Scurvy |
| Protein (gm) | | 1. | Rickets |
| Iron (mg) | | 2. | Goiter |
| Vitamin A (IU) | | 3. | Kwashiorkor |
| | | 4. | Marasmus ω |
| Gomez classification | | 5. | Keratomalacia |
| Normal | 91.7 | 6. | Anemias |
| 1st degree | | 7. | Intestinal parasites 60-90000 (1973) |
| 2nd degree | 8.3 | 8. | Tuberculosis 264 (1965) |
| 3rd degree | | 9. | (10(2) |
| | | 10. | Hemoglobin Levels (1962) |
| Birth weights by sex | | | % defi- % def. mean |
| Average (gms) | | Child mortality (deaths/1000, all cause | |
| • | | age 0-30 days (1970) 23.0 | Age (yr) |
| Below 2500 gms | | 1-12 months (1971) 42 | 1/2-5 35.6 95.0 12.1 |
| | | 1-4 years (1971) 18 | 5-14 13 |
| | | | 15-45, m. 16.9 52.1 13.6 |
| Most severe deficience | Les (1973) | Life Expectancy | 15-45, f. |
| l Protein-calorie | | at birth | pregnant 34.3 74.3 12.5 |
| 2. Riboflavin | | at age 10 | lactating |
| 3. Vitamin A | | | |

4. Niacin
5. Iron

MALAYSIA

| POPULATION | | LABOR AND INCOME | | HEALTH CARE | | |
|--|--------------|--|-------------|--------------------------------|------------------|----------|
| Total (millions) (1973) % age (years) 0-1 (1971) | 11.61 3.3 | Income Distribution (% of na income for lowest x% of po | | Facilities (1970) hospitals | 213 | |
| 1-4 | 11.1 | | | hospital beds | 33446 | |
| 5-9 | 14.7 | X=20% | | population/bed | 273 | |
| 10-14 | 12.9 | 40% | | total health units | | |
| 15-19 | 10.7 | 60% | | population/unit | . | |
| 20-54 | 37.3 | 80% | | population/unit-rur | al 130000 | 0 (1971) |
| 55-59 | 3.3 | 90% | | | | |
| 60–64 | 2.2 | 95% | | Personnel (1970) | | |
| 65+ | 4.5 | * | | doctors | 2370 | |
| Density (persons/km ²)(1971 | \ 70 | Unemployment Rate (1971) | 8.0% | % in rural areas | | |
| % Urban (1971) | .) 70 29 | ~ . ~ (1071) | • | population/doctor | 3857 | |
| The state of the s | 29 | Labor Force (1971) | 20 | nurses | 8430 | |
| Growth (rates/1000) (1971) | 34 | % female | 30 | % nurses, rural | 10000 | |
| crude birth rate | 34 7 | % in agriculture | 50 | population/nurse | 12300 | |
| crude death rate | 27 | m (1000) | | midwives | 3677 | |
| growth rate | 2.7 | % Income Spent on Food (1966 |) 46 | population/midwife | | ا. |
| MACROECONOMIC MEASURES | | AGRICULTURE | , | EDUCATION | | 37- |
| Gross National Product (19 | 71) | Land (1972) | | Expenditures (1971) | | |
| total (billion \$US) | 4.5 | Total (1000 km ²) | 131.6 | total (million \$US) | 150 | |
| per capita (\$US) | 400 | % arable | 131.0 | % on 1st level | 46 | |
| growth rate(1965-71) | 3.3 | % pasture | | % on 2nd level | 31 | |
| 8 | | % cash crops | | % on 3rd level | 15 | |
| Foreign Trade (million \$US | (1971) | % cash crops | | % on Signever | 13 | |
| Exports | 1696 | Land Distribution (% of farm | larte vd se | Level completed, age 15+ | (1071) | |
| Imports | 1352 | 0-1 hectare | is by Size, | no school (%) | 77 | |
| Balance | +344 | 1-4 hectares | | partial 1st level | 17 | |
| | | 5-9 hectares | | finished 1st level | 17 | |
| Government Expenditures (1 | 971) | 10-49 hectares | | partial 2nd level | 6 | |
| Total (% GNP) | 18.1 | 50-99 hectares | | partial 2nd rever | O | |
| Health (% Govt. Exp.) | | 100+ hectares | | Adult Literacy (1968) | | |
| Education | 16 | 1001 nectates | | male (1900) | 89 | |
| Agriculture | | Food Trade (\$100,000 US) (190 | 58) | female | U J | |
| | | Exports | 56.1 | Temare | | |
| | | Imports | 193 | | | |
| | | Production (% GNP) (1963 | | | | |

NICARAGUA

| NUTRITION | MORBIDITY AND MORTALITY | • | |
|--|--|---|---|
| Food Availability (1970) Calories 2330 | Mortality (deaths/100,000, all ages) (1965) Respiratory 41.0 | Disease Incidences (Cases/100,000 children/year) (1966) | |
| Protein (gm) 63 | Diarrheal 83.7 | Respiratory 7141 | |
| Iron (mg) 18 | 2 Measles 30.8 | Diarrheal 793.3 | |
| Vitamin A (IU) | Tuberculosis 6.4 | Measles 22.2 | |
| , , | Maternal/1000 live births | Pellagra | |
| Food Intake (1969) | • | Beriberi | |
| Calories 2108 | Leading causes of child deaths (1965) | Ścurvy | |
| Protein (gm) 72 | | Rickets | |
| Iron (mg) | 941 2. "ill-defined" | Goiter | |
| Vitamin A (IU) 15 | 4 3. Infective/parasitic | Kwashiorkor | |
| · | 4. Pneumonia | Marasmus | |
| Gomez classification (1967) | 5. Measles | Keratomalacia | ı |
| Normal 85 | 0 6. "other diseases" | Anemias | Ú |
| 1st degree | 7. Birth injury | Intestinal parasites | ĭ |
| 2nd degree 13 | 2 8. Whooping Cough | Tuberculosis | |
| 3rd degree 1 | 8 9. Malaria | | |
| | 10. Bronchitis | Hemoglobin Levels (1969) | |
| Birth weights by sex | | % defi- % def. mean | |
| Average (gms) | Child mortality (deaths/1000, all causes) | cient & low (gm/ml) | |
| | age 0-30 days (1965) 4.2 | Age (yr) 3-11 mos. 10 12 10.9 | |
| Below 2500 gms | 1-12 months (1970) 42.8 | 1-3 . 8 15 11.84 | |
| | 1-4 years (1965) 6.9 | 3-11 1 2 13.01 | |
| | | 18-45, m. 2 12 15.8 | |
| Most severe deficiencies (1969 | Life Expectancy (1965-70) | 18-45, f. 3 3 13.8 | |
| 1. PCM | at birth 49.9 | pregnant 10 20 | |
| 2. Vitamin A | at age 10 | lactating | |
| 3. Riboflavin | | 12-17, m. 12 58 13.8 | |
| 4. Iron, Folacin, B-12 5. Iodine | | 12-17, f. 0 0 13.8 | |
| 2. Indilie | | | |

NICARAGUA

| POPULATION | LABOR AND INCOME | HEALTH CARE |
|--|--|--|
| Total (millions) (1973) 2.01 % age (years) 0-1 (1971) 3.9 1-4 14.4 | Income Distribution (% of national income for lowest x% of population) | Facilities(1970) hospitals 55 hospital beds 4841 |
| 5-9 17.3 | X=20% | population/bed 409 |
| 10-14 12.9 | 40% | total health units 118 (1968) |
| 15-19 9.7 | 60% | population/unit 17669 (1968) |
| 20-54 35.6 | 80% | population/unit-rural |
| 55-59 1.7 | 90% | |
| 60-64 2.0 | 95% | Personnel (1970) |
| 65+ 2.5 | · | doctors 960 |
| ^ | Unemployment Rate (seasonal) | % in rural areas |
| Density (persons/ km^2) (1973)16 | | population/doctor 2060 |
| % Urban (1970) 45 | Labor Force | nurses 2558 |
| Growth (rates/1000)(1971) | % female (1965) 20 | % nurses, rural |
| crude birth rate 46.0 | % in agriculture (1970) 56 | population/nurse |
| crude death rate 16.5 | | midwives . |
| growth rate 29.5 | % Income Spent on Food | population/midwife $\overset{\omega}{\omega}$ |
| MACROECONOMIC MEASURES | AGRICULTURE | EDUCATION |
| Gross National Product (1971) | Land | Expenditures (1968) |
| total (billion \$US) .95 | Total (1000 km ²) (1971) 130 | total (million \$US) 16.5 |
| per capita (\$US) 450 | % arable (1963) 5.5 | % on 1st level 64 |
| growth rate 7.7 | % pasture (1963) 7.1 | % on 2nd level 19 |
| | % cash crops | % on 3rd level 10 |
| Foreign Trade (million \$US)(1971) | cas ctops | % on old level |
| Exports 175 | Land Distribution (% of farms by size) (1963) | Level completed age 15+ (1963) |
| Imports 198 | 0-1 hectare | no school (%) 50 |
| Balance -23 | 0-5 hectares 51 | partial 1st level 36 |
| | 5-9 hectares 13 | finished 1st level 10 |
| Government Expenditures (1968) | 10-49 hectares 25 | partial 2nd level 4 |
| Total (% GNP) 9.7 | 50-99 hectares 6.2 | partial 2nd level |
| Health (% Govt. Exp.) 9.9 | 100+ hectares 5.0 | Adult Literacy (1963) |
| Education 19.0 | 2001 1100000000000000000000000000000000 | male 51 |
| Agriculture | Food Trade (\$100,000 US) (1970) | female 51 |
| | Exports 742 | Temate |
| | Imports 160 | |
| | Production (% GNP)(1968) 28 | |
| | | |

NIGERIA

| NUTRITION | | MORBIDITY AND MORTALITY | | |
|---|---|---|--|--|
| Food Availability(1969) Calories Protein (gm) Iron (mg) Vitamin A (IU) | 2290 60 | Mortality (deaths/100,000, all ages) (1969 Respiratory 149.9 Diarrheal 113.3 Measles .79-1.0 Tuberculosis 1.0 Maternal/1000 live births | Disease Incidences (Cases children/year) Respiratory Diarrheal Measles Pellagra | 24700 (1965) 9600 (1965) 94.6 (1970) |
| Food Intake (recipe method Calories Protein (gm) Iron (mg) Vitamin A (IU) | nod) (1965) 2130 50 28 7493 | • | Beriberi Scurvy Rickets Goiter Kwashiorkor Marasmus | |
| Gomez classification(19) Normal 1st degree 2nd degree 3rd degree | 70) 76.9 23.1 | 5. 6. 7. 8. 9. | Keratomalacia Anemias Intestinal parasites Tuberculosis | 58 (1970) |
| Birth weights by sex Average (gms) Below 2500 gms | | 10. Child mortality (deaths/1000, all causes) age 0-30 days (1962) 11.5 1-12 months (1969) 58.0 | Hemoglobin Levels (1965) % defi- % def. cient & low Age (yr) 1/2-%4 yrs. 41.7 76.3 | mean (gm/m1) |
| Most severe deficiencies 1. Riboflavin 2. Protein 3. Thiamine 4. Vitamin C 5. | g (1965) | 1-4 years (data for Lagos only) Life Expectancy at birth at age 10 | 5-14 10.2 29.0 15-45, m. 14.6 66.6 15-45, f. 9.8 22.0 pregnant 7.3 24.2 lactating | 11.7 13.4 12.1 10.9 |

NIGERIA

| POPULATION | | LABOR AND INCOME | | HEALTH CARE | | |
|---|-------------------------|--|----------|--|------------------|-------|
| Total (millions) (1973) % age (years) 0-1 (1971) 1-4 | 59.61 2.8 14.4 | Income Distribution (% of national income for lowest x% of population) | | Facilities hospitals (1970) hospital beds | 1682 35716 (1 | L971) |
| 5-9 | 15.2 | X=20% | | population/bed | 1582 | L970) |
| 10-14 | 10.7 | 40% | | total health units | 1302 | |
| 15-19 | 9.4 | 60% | | population/unit | | |
| 20-54 | 43.2 | 80% | | population/unit-rur | al | |
| 55-59 | 0.8 | 90% | | • • | | |
| 60-64 | 1.4 | 95% | | Personnel (1971) | | |
| 65+ | 2.1 | | | doctors | 1300 | |
| • | | Unemployment Rate (1961) | 13.7% | % in rural areas | | |
| Density (persons/km ²)(1973 | 3) 65 | - | • | population/doctor | 43469 | |
| % Urban (1970) | 16.0 | Labor Force (1963) | | nurses | 7998 | |
| Growth (rates/1000)(1971) | | % female | 24 | % nurses, rural | | |
| crude birth rate | 49.6 | % in agriculture | 67 | population/nurse | 4225 | |
| crude death rate | 24.9 | | | midwives | | • |
| growth rate | 24.7 | % Income Spent on Food (1960) | 46 | population/midwife | | |
| MACROECONOMIC MEASURES | | AGRICULTURE | | EDUCATION | | -41- |
| Gross National Product (19 | 71) | Land | | Expenditures (1962) | | |
| total (billion \$US) | 7.8 | Total (1000 km ²) (1971) | 924 | total (million \$US) | 72.0 | |
| per capita (\$US) | 140 | % arable (1961) | 23.6 | % on 1st level | 48 | |
| growth rate (1965-71) | | % pasture | 27.9 | % on 2nd level | 31 | |
| | | % cash crops | _, | % on 3rd level | 17 | |
| Foreign Trade (million \$US | s) (1971) | - | | | | |
| Exports | 1240 | Land Distribution (% of farms | by size) | Level completed, age 15+ | | |
| Imports | 1059 | 0-1 hectare | | no school (%) | | |
| Balance | | | | | | |
| | +181 | 0-4 hectares | | partial 1st level | | |
| | +181 | 0-4 hectares 5-9 hectares | | partial 1st level finished 1st level | | |
| Government Expenditures | | 5-9 hectares 10-49 hectares | | - | | |
| Total (% GNP)(1965) | 9.4 | 5-9 hectares 10-49 hectares 50-99 hectares | | finished 1st level | | |
| Total (% GNP)(1965) Health (% Govt. Exp.) | 9.4 (1961–62) | 5-9 hectares 10-49 hectares 50-99 hectares | | finished 1st level | | |
| Total (% GNP)(1965) Health (% Govt. Exp.) Education (1961-62) | 9.4 (1961–62) 6.4 | 5-9 hectares 10-49 hectares 50-99 hectares 5.3 100+ hectares | | finished 1st level partial 2nd level Adult Literacy (1953) male | 11.5 | |
| Total (% GNP)(1965) Health (% Govt. Exp.) | 9.4 (1961–62) 6.4 | 5-9 hectares 10-49 hectares 50-99 hectares 5.3 100+ hectares Food Trade (\$100,000 US) (1970 | | finished 1st level partial 2nd level Adult Literacy (1953) | 11.5 | |
| Total (% GNP)(1965) Health (% Govt. Exp.) Education (1961-62) | 9.4 (1961–62) 6.4 | 5-9 hectares 10-49 hectares 50-99 hectares 6.3 100+ hectares Food Trade (\$100,000 US) (1970 Exports | 2917 | finished 1st level partial 2nd level Adult Literacy (1953) male | 11.5 | |
| Total (% GNP)(1965) Health (% Govt. Exp.) Education (1961-62) | 9.4 (1961–62) 6.4 | 5-9 hectares 10-49 hectares 50-99 hectares 5.3 100+ hectares Food Trade (\$100,000 US) (1970 | | finished 1st level partial 2nd level Adult Literacy (1953) male | 11.5 | |

PAKISTAN

| NUTRITION | MORBIDITY AND MORTALITY | |
|---|--|---|
| Food Availability (1969-70) Calories 2410 | Mortality (deaths/100,000, all ages) Respiratory | Disease Incidences (Cases/100,000 children/year) (1968) |
| Carotres | Diarrheal | Respiratory 18000 |
| Troccin (Em) | Measles | Diarrheal 22000 |
| Iron (mg) | Tuberculosis | Measles |
| Vitamin A (IU) | Maternal/1000 live births | Pellagra |
| Food Intake | racellar/1000 five billing | Beriberi |
| Calories | Leading causes of child deaths | Scurvy |
| | | Rickets |
| Protein (gm) | 1. 2. | Goiter |
| Iron (mg) | 3. | Kwashiorkor |
| Vitamin A (IU) | 4. | Marasmus |
| Gomez classification (1965-66) | 5. | Keratomalacia |
| | 6. | Anemias 40000 |
| | 7. | Intestinal parasites |
| lst degree 2nd degree 81.7 | %. 8. | Tuberculosis |
| | 9. | Tubelculosis |
| 3rd degree | 10. | Hemoglobin Levels |
| ndown and then have now | 10. | % defi- % def. mean |
| Birth weights by sex | Child mortality (deaths/1000, all causes) | |
| Average (gms) | age 0-30 days | Age (yr) |
| Below 2500 gms | 1-12 months 142 | 1/2-5 |
| Delow 2000 gms | 1-4 years 18.9 | 5-14 |
| | 1-4 years | 15-45, m. |
| Most severe deficiencies | Life Expectancy | 15-45, f. |
| | at birth | pregnant |
| 1. | | lactating |
| 2. | at age 10 | Tactactuk |
| 3. | | |

PAKISTAN

| Total (millions) (1973) 66.75 % age (years) 0-1 | Income Distribution (% of national income for lowest x% of population) | Facilities (1969) hospitals 2548 |
|---|---|--|
| 1-4 5-9 10-14 15-19 20-54 55-59 60-64 | X=20% 40% 60% 80% 90% 95% | hospital beds 31565 population/bed 4015 total health units population/unit population/unit-rural Personnel (1970) |
| 65+ Density (persons/km²)(1973) 83 % Urban (1971) 13 Growth (rates/1000)(1971) crude birth rate 51 crude death rate 18 growth rate 21 | Unemployment Rate Labor Force (1960) % female | doctors 14601 % in rural areas population/doctor 9014 nurses 7185 % nurses, rural population/nurse midwives 616 population/midwife |
| MACROECONOMIC MEASURES | AGRICULTURE | EDUCATION 4 |
| Gross National Product (1971) total (billion \$US) 8.2 per capita (\$US) 130 growth rate (1965-71) 3.0 | Land (1971) Total (1000 km²) | Expenditures (1968) total (million \$US) 203 % on 1st level 43.7 % on 2nd level 24.5 % on 3rd level 21.1 |
| Foreign Trade (million \$US) (1971) Exports 723 Imports 1151 Balance -428 Government Expenditures Total (% GNP) Health (% Govt. Exp.) Education Agriculture | Land Distribution (% of farms by size) 0-1 hectare 1-4 hectares 5-9 hectares 10-49 hectares 50-99 hectares 100+ hectares Food Trade (\$100,000 US) (1967) Exports Imports Production (% GNP) 44 | Level completed, age 15+ (1961) no school (%) 81.2 partial 1st level 13.3 finished 1st level 1.8 partial 2nd level 3.6 Adult Literacy (1961) male 28.9 female 7.4 |

PANAMA

| NUTRITION | | MORBIDITY AND MORTALITY | | • | |
|----------------------------------|-----------|--|-----------------|--|---------------------|
| Food Availability (1970) |) 2370 | Mortality (deaths/100,000, all Respiratory | ll ages) (1970) | Disease Incidences (Cas children/year) (196 | |
| Protein (gm) | 59 | Diarrheal | 47.3 | Respiratory | 536.9 |
| Iron (mg) | 14.6 | Measles | 20.2 | Diarrheal | 105.0 |
| Vitamin A (IU) | 14.0 | Tuberculosis | 19.5 | Measles | 112.3 |
| Vitamin A (10) | | Maternal/1000 live birth | | Pellagra | |
| Eng. 4 Tours (2005 (2) | | Maternary 1000 five bilt | 79 (T300) T.3 | Beriberi | |
| Food Intake(1965-67) Calories | 2000 | Leading causes of child death | ha (1070) | Scurvy | |
| | 2089 | 1."Symptoms ill-defined" | 18 (1970) | Rickets | |
| Protein (gm) | 60.1 | | | Goiter | 16000 (1967) |
| Iron (mg) | 14.3 | 2. Diarrhea | | Golter Kwashiorkor | 10000 (1707) |
| Vitamin A (IU) | 1826 | 3. Pneumonia | | | ! |
| | | 4. Accidents | | Marasmus | 44 |
| Gomez classification (| • | 5. Measles | | Keratomalacia | ī |
| Normal | 88.1 | 6. Perinatal | | Anemias | ham 22%, mural 100% |
| 1st degree | | 7. Anoxia and Hypoxic conditi | ons. | Intestinal parasites ur | 71060) |
| 2nd degree | 10.8 | 8. Bronchitis | | Tuberculosis | (1969) |
| 3rd degree | 1.1 | 9. Tetanus | | (1000 | |
| | | 10.Nutritional deficiencies | | Hemoglobin Levels (1969 | |
| Birth weights by sex | | | | % defi- % de | |
| Average (gms) | | Child mortality (deaths/1000) | , all causes) | cient & lo | |
| • | | age 0-30 days (1971) | 19.7. | Age (yr) 3-11 mos. 17 17 | |
| Below 2500 gms | | 1-12 months (1968) | 39.2 | 1-3 2 7 | |
| | | 1-4 years (1968) | 7.3 | 3-11 6 12 | |
| | | | | 18-45, m. 9 46 | 14.20 |
| Most severe deficienci | es (1969) | Life Expectancy (1960-61) | 1 | 18-45, f. 6 10 | 13.08 |
| 1. PCM | , , | at birth 57.62 (M); 60. | 88 (F) | pregnant 0 | |
| 2. Vitamin A | | at age 10 | | lactating 3 6 | |
| 3. Riboflavin | | U | | 12-17, m. 11 58 | 12.34 |
| 4. Thiamine | | | | 12-17, f. 8 11 | 12.92 |
| 5. Iron, anemias | | | | • | |
| 6. Iodine | | | | | |
| 0. Tourne | | • | | | |

PANAMA

| Total (millions) (1973) 1.57 | POPULATION | | LABOR AND INCOME | | HEALTH CARE | | |
|--|--|-----------|---------------------------------|----------|-------------------------|-------------------|---|
| S-9 | % age (years) 0-1(1971) | 3.9 | | | hospitals | | |
| 10-14 12.0 | | | Y=2∩9 | 4.0 | | | |
| 15-19 10.0 60% 27.0 population/unit 8978 (1969) 20-54 38.6 80% 43.4 population/unit-rural 55-59 2.2 90% 46.0 60-64 2.0 95% 80.5 Personnel (1972) doctors 1070 doctors | | | | | | | |
| 20-54 38.6 80% 43.4 population/unit-rural 55-59 2.2 90% 46.0 60-64 2.0 95% 80.5 60-64 2.0 60-64 3.6 Unemployment Rate (1970) 6.6% % in rural areas 1070 | | | | | _ | | |
| S5-59 2.2 90% 46.0 60-64 2.0 95% 80.5 Personnel (1972) doctors 1070 | | | | | | 9/8 (1969) •a1 | |
| Company Comp | | | | | population, unit-14. | . 61 | |
| Density (persons/km²)(1973) 20 | | | | | Personnel (1072) | | |
| Density (persons/km²) (1973) 20 | | | 55% | , | | 070 | |
| Density (persons/km²)(1973) 20 | 031 | 3.0 | linemalowment Rate (1970) | 6 69 | | .070 | |
| Stream (1969) 48 | Density (persons/km ²)(1973 | 3) 20 | onempacyment nace (1970) | | | 491 | |
| Growth (rates/1000)(1971) | | | Lahor Force | | | | |
| Crude birth rate 37.1 | and the second s | | | 21 | • | 170 | |
| Crude death rate growth rate 28.3 % Income Spent on Food (1964) 42 midwives population/midwife 45 MACROECONOMIC MEASURES AGRICULTURE EDUCATION | | 37.1 | | | | 404 | |
| ### MACROECONOMIC MEASURES ### AGRICULTURE AGRICULTURE | | | % III agriculture (1970) | 43 | = = = | 494 | |
| MACROECONOMIC MEASURES AGRICULTURE EDUCATION Expenditures(1969) total (billion \$US) 1.21 Total (1000 km²) (1971) 75 per capita (\$US) 820 | | | % Income Spent on Food (1964) | 42 | · - | | 4 |
| Gress National Product (1971) total (billion \$US) 1.21 per capita (\$US) 820 growth rate (1965-71) 4.5 Expenditures(1969) total (million \$US) 38.8 % on 1st level 47 growth rate (1965-71) 4.5 % pasture (1960) 11.0 % cash crops Foreign Trade (million \$US) (1971) Exports Ill Land Distribution (% of farms by size) (1961) Imports 353 O-1 hectare 5 Balance -242 1-4 hectares 34 Government Expenditures Total (% GNP)(1970) 13.4 Total (% GNP)(1970) 13.4 Foreign Trade (1960) 11.0 Foreign Trade (million \$US) (1971) Level completed, age 15+ (1950) no school (%) partial 1st level 30 finished 1st level 23 partial 2nd level 14 Total (% GNP)(1970) 13.4 Foreign Trade (1960) 14.5 Foreign Trade (1960) 14.5 Foreign Trade (1960) 11.0 % on 2nd level 20 % on 3rd level 9 Adult Literacy (1960) male 74.2 | B | | % Income spent on 1004 (1904) | 74 | population, midwile | • | 5 |
| total (billion \$US) 1.21 | MACROECONOMIC MEASURES | | AGRICULTURE | • | EDUCATION | | • |
| total (billion \$US) 1.21 | Gross National Product (10 | 1711 | Land | | Franchitumoger | | |
| per capita (\$US) 820 | | • | Total (1000 km²) (2011) | 4.5 | tatal (million SUS) | | |
| growth rate (1965-71) 4.5 % pasture (1960) 11.0 % on 2nd level 20 % on 3rd level 9 Foreign Trade (million \$US) (1971) Exports | | | % nrable (1060) | | % and late larged | | |
| % cash crops % on 3rd level 9 | | | | | | | |
| Foreign Trade (million \$US) (1971) Exports 111 Land Distribution (% of farms by size) (1961) Level completed, age 15+ (1950) Imports 353 0-1 hectare 5 no school (%) 32 Balance -242 1-4 hectares 34 partial 1st level 30 5-9 hectares 26 finished 1st level 23 Government Expenditures 10-49 hectares 28 partial 2nd level 14 Total (% GNP)(1970) 13.4 50-99 hectares 5 Health (% Govt. Exp.) (1969) 14.5 100+ hectares 2 Adult Literacy (1960) Education (1968) 34.6 | growth rate (1705 /1) | 4.7 | | 11.0 | | | |
| Exports 111 Land Distribution (% of farms by size) (1961) Level completed, age 15+ (1950) Imports 353 0-1 hectare 5 no school (%) 32 Balance -242 1-4 hectares 34 partial 1st level 30 5-9 hectares 26 finished 1st level 23 Government Expenditures 28 partial 2nd level 14 Total (% GNP)(1970) 13.4 50-99 hectares 5 Health (% Govt. Exp.) (1969) 14.5 100+ hectares 2 Adult Literacy (1960) Education (1968) 34.6 | Foreign Trade (million \$110 | 2) (1971) | % cash crops | | % on pro level | 9 | |
| Imports 353 0-1 hectare 5 no school (%) 32 Balance -242 1-4 hectares 34 partial 1st level 30 5-9 hectares 26 finished 1st level 23 Government Expenditures 10-49 hectares 28 partial 2nd level 14 Total (% GNP)(1970) 13.4 50-99 hectares 5 Health (% Govt. Exp.) (1969) 14.5 100+ hectares 2 Adult Literacy (1960) Education (1968) 34.6 male 74.2 | | | I and Distribution (% of forms | h | Town 1 countries 15: | (1050) | |
| Balance -242 1-4 hectares 34 partial 1st level 30 5-9 hectares 26 finished 1st level 23 Government Expenditures 10-49 hectares 28 partial 2nd level 14 Total (% GNP)(1970) 13.4 50-99 hectares 5 Health (% Govt. Exp.) (1969) 14.5 100+ hectares 2 Adult Literacy (1960) Education (1968) 34.6 male 74.2 | | | | | | | |
| 5-9 hectares 26 finished 1st level 23 Government Expenditures 10-49 hectares 28 partial 2nd level 14 Total (% GNP)(1970) 13.4 50-99 hectares 5 Health (% Govt. Exp.) (1969) 14.5 100+ hectares 2 Adult Literacy (1960) Education (1968) 34.6 male 74.2 | = | | | | | | |
| Government Expenditures 10-49 hectares 28 partial 2nd level 14 Total (% GNP)(1970) 13.4 50-99 hectares 5 Health (% Govt. Exp.) (1969) 14.5 100+ hectares 2 Adult Literacy (1960) Education (1968) 34.6 male 74.2 | Datance | -242 | | | | | |
| Total (% GNP)(1970) 13.4 50-99 hectares 5 Health (% Govt. Exp.) (1969) 14.5 100+ hectares 2 Adult Literacy (1960) Education (1968) 34.6 male 74.2 | Government Evnenditures | | | | | | |
| Health (% Govt. Exp.) (1969) 14.5 100+ hectares 2 Adult Literacy (1960) Education (1968) 34.6 male 74.2 | | 12 / | | | partial 2nd level | 14 | |
| Education (1968) 34.6 male 74.2 | | | | | Adula Idaanaa (1000) | | |
| 74,2 | | | J 100+ nectares | 4 | | 7/ 0 | |
| | Agriculture | J4.0 | Food Trade (\$100,000 US) (1970 | \ | male fema l e | | |
| Agriculture Food Trade (\$100,000 US)(1970) female 72.4 Exports 815 | | | | • | remare | 12.4 | |
| <u>.</u> | | | | | | | |
| Production (% GNP) (1968) 23 | | | Imports | 260 | | | |

PHILIPPINES

| NUTRITION | MORBIDITY AND MORTALITY | |
|--|--|---|
| Food Availability (1969) Calories 2040 Protein (gm) 53 Iron (mg) Vitamin A (IU) | Mortality (deaths/100,000, all ages) (1969) Respiratory 198.4 Diarrheal 40.2 Measles 7.9 Tuberculosis 74.8 | Disease Incidences (Cases/100,000 children/year) (1966) Respiratory 1497.5 Diarrheal 34 Measles 65.13 |
| Food Intake (1958-67) Calories 1673 Protein (gm) 46.8 Iron (mg) 9.73 Vitamin A (IU) 1886 | Maternal/1000 live births 2.0 Leading causes of child deaths (1966) 1. Pneumonia 2. Gastroenteritis and colitis 3. Bronchitis | Pellagra Beriberi Scurvy Rickets Goiter Kwashiorkor |
| Gomez classification (1958-67) Normal 58.1 1st degree 2nd degree 35.7 3rd degree 6.2 Birth weights by sex Average (gms) Below 2500 gms Most severe deficiencies | 4. Avitaminosis and other deficiency states 5. Postnatal asphyxia and atelectasis 6. Tetanus 7. Tuberculosis 8. Measles 9. Helminthic diseases 10. Congenital malformations Child mortality (deaths/1000, all causes) age 0-30 days (1970) 27.6 1-12 months (1972) 67.3 1-4 years (1972) 7.9 Life Expectancy | Marasmus Keratomalacia Anemias Intestinal parasites Tuberculosis % defi- % def. mean cient & low (gm/ml) Age (yr) 1/2-5 5-14 15-45, m. 15-45, f. |
| 1. 2. 3. 4. 5. | at birth at age 10 | pregnant lactating |

PHILIPPINES

| POPULATION | | LABOR AND INCOME | | HEALTH CARE | |
|--|---|---|--|---|---------------------------------|
| Total (millions) (1973) % age (years) 0-1 (1971) 1-4 5-9 10-14 15-19 20-54 55-59 | 40.22 4.3 14.9 15.1 12.5 10.6 36.2 2.2 | Income Distribution (% of natincome for lowest x% of pop 40% 60% 80% 90% | | Facilities (1969) hospitals hospital beds 4 population/bed total health units population/unit population/unit-rur | 764 3492 822 al |
| 60-64 65+ | 1.6 2.4 | 95% Unemployment Rate (1969) | 6.7% | Personnel(1970) doctors % in rural areas | 4051 24 |
| Density (persons/km²)(1973) % Urban (1970) Growth (rates/1000)(1971) crude birth rate crude death rate growth rate | 134 32 44.7 12.0 32.7 | Labor Force % female (1965) % in agriculture (1972) % Income Spent on Food (1961) | 34 56 58 | population/doctor nurses % nurses, rural population/nurse | 9096 6841 5386 2761 |
| MACROECONOMIC MEASURES | | AGRICULTURE | , | EDUCATION | 1-4 |
| Gross National Product(1977) total (billion \$US) per capita (\$US) growth rate(1965-71) | 9.16 240 2.7 | Land (1970) Total (1000 km²) % arable % pasture % cash crops | 127 21.9 4.7 | Expenditures(1967) total (million \$US) % on 1st level % on 2nd level % on 3rd level | 180 |
| Foreign Trade (million \$US) Exports Imports Balance |) (1971) 1119 1210 -91 | Land Distribution (% of farms 0-1 hectare 1-4 hectares 5-9 hectares | s by size) (1948) 19.2 65.2 9.8 | Level completed, age 15+ no school (%) partial 1st level finished 1st level | (1960) 25.6 53.6 |
| Government Expenditures Total (% GNP)(1971) Health (% Govern Exp.) | 15.8 (1973) 6.6 | 10-49 hectares 50-99 hectares 100+ hectares | 5.6 0.1 0.1 | partial 2nd level Adult Literacy (1970) | 14.5 |
| Education (1973) Agriculture (1973) | 25.9 11.0 | Food Trade (\$100,000 US) (19) Exports Imports Production (% GNP) | 70) 6452 1692 30 | male female | 85 82 |

THAILAND

| NUTRITION | MORBIDITY AND MORTALITY | |
|---|---|--|
| Food Availability (1964-66) | Mortality (deaths/100,000, all ages) (1969) | Dispass Indidenses (Course/100 000 |
| Calories 22 | | Disease Incidences (Cases/100,000 children/year) |
| | 1 Diarrheal 26.4 | |
| Iron (mg) | Measles 0.5 | Respiratory Diarrheal |
| Vitamin A (IU) | Tuberculosis 21.3 | |
| VICAMIN A (10) | Maternal/1000 live births 2.6 | Measles |
| Food Intake | raternar/1000 five births 2.0 | Pellagra |
| Calories | Tanddon account of alich 1 to 12 (1966) | Beriberi |
| | Leading causes of child deaths (1966) | Scurvy |
| Protein (gm) | 1. Gastroenteritis and colitis | Rickets |
| Iron (mg) | 2. Pneumonia | Goiter |
| Vitamin A (IU) | 3. Dysentery | Kwashiorkor |
| | 4. Accidents | Marasmus |
| Gomez classification (1970) | 5. Postnatal asphyxia and atelectasis | Keratomal acia |
| Normal | 6. Avitaminosis and other deficiency states | Anemias |
| 1st degree 90 | | Intestinal parasites |
| | 3 8. Acute upper respiratory infections | Tuberculosis |
| 3rd degree 1 | 4 9. Diphtheria | |
| | 10. Infective diseases | Hemoglobin Levels |
| Birth weights by sex | | % defi- % def. mean |
| Average (gms) | Child mortality (deaths/1000, all causes) | cient & low (gm/ml) |
| Delete 2500 | age 0-30 days (-11-7) | Age (yr) |
| Below 2500 gms | 1-12 months(1970) 26 | 1/2-5 |
| | 1-4 years (1969) 6.0 | 5-14 |
| . Mante announce deficient and the con- | 70) 715 7 (1070) | 15-45, m. |
| Most severe deficiencies (1 | | 15-45, f. |
| 1. Protein | at birth 62.8 (m); 68.9 (f) | pregnant |
| 2. Riboflavin | at age 10 57.0 (m); 62.8 (f) | lactating |
| 3. Thiamine | • | |

4. Iron

5. Calcium (Fluorosis--rural)

148

THAILAND

| POPULATION | | LABOR AND INCOME | | HEALTH CARE | |
|--|----------------------|--|-------------------|--------------------------|--------------|
| Total (millions) (1973) % age (years) 0-1 (1971) 1-4 | 37.79 2.3 13.9 | <pre>Income Distribution (% of na income for lowest x% of po</pre> | | | 542 40781 |
| 5–9 | 15.2 | X=20% | | population/bed | 843 |
| 10-14 | 11.8 | 40% | | total health units | |
| 15-19 | 9.5 | 60% | | | 34007 (1968) |
| 20-54 | 40.2 | 80% | | population/unit-rur | ral |
| 55-59 | 2.5 | 90% | | | |
| 60-64 | 1.8 | 95% | | Personnel (1970) | |
| 65+ | 2.8 | | | | 4313 |
| . 2 | | Unemployment Rate | | % in rural areas | |
| Density (persons/km ²) (1973 | | | • | | 7971 |
| % Urban (1969) | 18 | Labor Force | | | 5171 |
| Growth (rates/1000)(1971) | | % female (1960) | 48 | % nurses, rural | |
| crude birth rate | 42.8 | % in agriculture(1970) | 46 | For and and a second | 6648 |
| crude death rate | 10.4 | 47.74.7 | | mrdwr v C3 | 9974 |
| growth rate | 32.4 | % Income Spent on Food (1963) | 43 | population/midwife | 3447 |
| | | | | | - 49 |
| MACROECONOMIC MEASURES | | AGRICULTURE | • | EDUCATION | 91 |
| Gross National Product (19 | 71) | Land | | Expenditures (1969) | |
| total (billion \$US) | 7.82 | Total (1000 km ²)(1971) | 514 | total (million \$US) | 142 |
| per capita (\$US) | 210 | % arable (1965) | 19.0 | % on 1st level | 62 |
| growth rate (1965-71) | | % pasture | 1 /• () | % on 2nd level | 19 |
| 81- 100 (1703 /1) | 4.7 | % cash crops | | % on 3rd level | 10 |
| Foreign Trade (million \$US | (1971) | | | | |
| Exports | 710 | Land Distribution (% of farm | s by size) (1960) | Level completed, age 154 | + (1960) · |
| Imports | 1293 | 0-2.4 hectare | 47.9 | no school (%) | 37 |
| Balance | -583 | 2.4-4.8 hectares | 27.5 | partial 1st level | 13 |
| | | 4.8-9.6 hectares | 19.2 | finished 1st level | 43 |
| Government Expenditures | 9 | 9.6-22.4 hectares | 5.1 | partial 2nd level | 7 |
| Total (% GNP) (1970) | 17.2 | 22.4+ hectares | 0.3 | • | |
| Health (% Govt. Exp.) | | 0.2 100+ hectares | | Adult Literacy (1970) | |
| Education (1969) | 16.0 | | | male | 70 |
| Agriculture (1969) | 9.7 | Food Trade (\$100,000 US) (197 | 70) | female | |
| | | Exports | 3096 | | |
| | | Imports | 660 | | |
| | | Production (% GNP)(1969) | | | |
| | | • | | | |

TUNISIA

| NUTRITION | | MORBIDITY AND MORTALITY | |
|---|---------------------|---|---|
| Food Availability (196 Calories Protein (gm) Iron (mg) Vitamin A (IU) Food Intake (1966) | 4–66) 2200 63 | Mortality (deaths/100,000, all ages) Respiratory Diarrheal Measles Tuberculosis Maternal/1000 live births | Disease Incidences (Cases/100,000 children/year) (1970) Respiratory Diarrheal Measles Pellagra |
| Calories Protein (gm) Iron (mg) Vitamin A (IV) | 2360 64.8 | Leading causes of child deaths 1. 2. 3. 4. | Beriberi Scurvy 10-20000 Rickets Goiter Kwashiorkor Marasmus |
| Gomez classification (Normal 1st degree 2nd degree 3rd degree | 72.1 26.0 1.9 | 5. 6. 7. 8. 9. | Keratomalacia 10000 Anemias Intestinal parasites Tuberculosis 35.7 |
| Birth weights by sex Average (gms) Below 2500 gms | | Child mortality (deaths/1000, all causes age 0-30 days 1-12 months 1-4 years 14.9 | Hemoglobin Levels % defi- % def. mean cient & low (gm/ml) Age (yr) 1/2-5 5-14 |
| Most severe deficienci 1. Protein 2. Calories 3. Calcium 4. Vitamin A 5. Riboflavin | Les (1970) | Life Expectancy at birth at age 10 | 15-45, m. 15-45, f. pregnant lactating |

TUNISIA

| POPULATION | | LABOR AND INCOME | | HEALTH CARE | |
|--|---------------------|--|-------------|--|-----------|
| Total (millions) (1973) % age (years) 0-1 (1971) 1-4 | 5.51 3.7 14.8 | Income Distribution (% of national income for lowest x% of population) | | Facilities (1971) hospitals hospital beds 12 | 88 834 |
| 5-9 | 15.2 | X=20% | | | 408 |
| 10-14 | 12.6 | 40% | | total health units | |
| 15-19 | 8.4 | 60% | | population/unit | |
| 20-54 | 36.9 | 80% | | population/unit-rur | al |
| 55-59 | 2.8 | 90% | | - | |
| 60-64 | 2.1 | 95% | | Personnel (1971) | |
| 65+ | 3.5 | | • | doctors 1 | 004 |
| • | | Unemployment Rate (1971) | 5.1% | % in rural areas | |
| Density (persons/km ²) (1973) |) 34 | | • | population/doctor 5 | |
| % Urban (1969) | 40 | Labor Force | | | 671 |
| Growth (rates/1000)(1971) | | % female (1960) | 24 | % nurses, rural | |
| crude birth rate | 36.2 | % in agriculture (1970) | 46 | P = P = = = = | 683 |
| crude death rate | 16.0 | | | midwives (gvt. serv | |
| growth rate | 20.2 | % Income Spent on Food (1970) | 50 | population/midwife | 23285 |
| MACROECONOMIC MEASURES | | AGRICULTURE | | EDUCATION | |
| Gross National Product(197) | 1) | Land | | Expenditures (1966) | |
| total (billion \$US) | • | Total (1000 km ²) ₍₁₉₇₁₎ | 167 | total (million \$US) | 1.6 1. |
| per capita (\$US) | 1.67 320 | % arable (1961) | 164 27.5 | % on 1st level | 50 |
| growth rate (1965-71) | 3.6 | % pasture (1961) | 19.8 | % on 2nd level | 37 |
| 8104611 1466 (1903 /1) | 3.0 | % cash crops | 2,00 | % on 3rd level | 7 |
| Foreign Trade (million \$US) | (1971) | N Gash Gaspo | | | |
| Exports | 181 | Land Distribution (% of farms | by size) | Level completed, age 15+ | • |
| Imports | 306 · | 0-1 hectare | , | no school (%) | |
| Balance | -125 | 1-4 hectares | | partial 1st level | |
| | | 5-9 hectares | | finished 1st level | |
| Government Expenditures (| | 10-49 hectares | | partial 2nd level | |
| Total (% GNP) (1969) | 14.3 | 50-99 hectares | | - | |
| Health (% Govt. Exp.) | | 100+ hectares | | Adult Literacy (1966) | |
| Education (1968) | 25.2 | | | male | 36 |
| Agriculture | | Food Trade (\$100,000 US) (1970 | | female | 17.6 |
| | | Exports | 2082 | | |
| | | Imports | 836 | | |
| | | Production (% GNP)(1969) | 15 | | |

TABLE REFERENCES: BIBLIOGRAPHICAL

| | Boli | ivia | Br | azil | Ru | ırma | Ch | ile | Colo | mbia | Ecua | dor |
|--|---|------------------------------|----------|--------------|----------------------|------------------------------|----------------|----------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|
| | *************************************** | | | | | | ***** | | | | | |
| | ref | date | ref | date | ref | date | ref | date | ref | date | ref | date |
| FOOD AVAILABILITY CALORIES PROTEIN IRON | 23 23 | 1971 1971 | 23 23 | 1971 1971 | 23 23 | 1971 1971 | 23 23 | 1971 1971 | 23 23 | 1971 1971 | 23 23 | 1971 1971 |
| VITAMIN A | | | | | | | | | | | | |
| FOOD INTAKE CALORIES PROTEIN IRON VITAMIN A | 75 75 | 1964 1964 | | | 82 82 82 82 | 1963 1963 1963 1963 | | | 77 77 77 77 | 1961 1961 1961 1961 | 78 78 78 78 | 1960 1960 1960 1960 |
| GOMEZ BIRTH WEIGHTS SEVERE DEFICIENCIES | 75 | 1964 | 10 4 | 1974 1973 | 82 | 1963 | 10 76 | 1974 1961 | 77 | 1961 | 10 78 | 1974 1960 |
| | | 1304 | 4 | 1973 | 02 | 1303 | | | | 1901 | 7.0 | 1900 |
| MORTALITY RESPIRATORY DIARRHEAL MEASLES TUBERCULOSIS MATERNAL | 67 67 63 68 | 1972 1972 1972 1973 | | | 68 68 | 1973 1973 | 67 67 67 | 1972 1972 1972 | 67 67 67 91 91 | 1972 1972 1972 1974 1974 | 67 67 67 91 91 | 1972 1972 1972 1974 1974 |
| LEADING CAUSES CHILD MORTALITY 0-30 DAYS | 51 | 1973 | 51 65 | 1973 1967 | 65 | 1967 | 90 72a | 1967 1974 | 90 72a | 1967 1974 | 91 72a | 1974 1974 |
| 1-12 MONTHS 1 -4 YEARS | 72a 67 | 1974 1972 | 67 67 | 1972 1972 | 67 67 | 1972 1972 | 72a 67 | 1974 1972 | 72a 67 | 1974 1972 | 72a 67 | 1974 1972 |
| LIFE EXPECTANCY AT BIRTH AT 10 | 72a | 1974 | 72a | 1974 | | | 72a | 1974 | 72a | 1974 | 72a | 1974 |
| HEMOGLOBIN | 7 5 | 1964 | | | 82 | 1963 | 76 | 1961 | 77 | 1961 | 78 | 1960 |
| DISEASE INCIDENCES RESPIRATORY DIARRHEAL MEASLES PELLAGRA BERIBERI | 90 90 90 | 1967 1967 1967 | 91 | 1974 | | | 91 | 1974 | 90 90 90 | 1967 1967 1967 | 90 89 | 1967 1966 |

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| | Boliv | <u>ia</u> | Bra | azil | Bu | rma | Ch | ile | Colo | mbia | Ecua | dor |
|--|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|
| | ref | date |
| SCURVY RICKETS GOITER KWASHIORKOR | | | | | | | | | | | 78 | 1960 |
| MARASMUS KERATOMALACIA ANEMIAS | | | | | | | | | 77 | 1961 | 78 | 1960 |
| PARASITES TUBERCULOSIS | 91 | 1974 | 89 | 1966 | | | | | 77 | 1961 | 78 | 1960 |
| POPULATION | | | | | | | | | | | | |
| TOTAL AGE DIST. | 88 66 | 1973 1971 | 88 68 | 1973 1973 | 88 66 | 1973 1971 | 88 67 | 1973 1972 | 88 66 | 1973 1971 | 88 67 | 1973 1972 |
| DENSITY % URBAN GROWTH RATES | 67 66 | 1972 1971 | 67 67 | 1972 1972 | 67 67 | 1972 1972 | 67 66 | 1972 1971 | 67 67 | 1972 1972 | 67 66 | 1972 1971 |
| BIRTH DEATH | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 |
| MACROECONOMIC MEASURE | s | | | | | | | | | | | |
| GNP TOTAL PER CAP. GROWTH | 71 | 1972 | 34 | 1973 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 |
| FOREIGN TRADE EXPORTS IMPORTS BALANCE | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 |
| GOVT. EXPEND. TOTAL HEALTH | 71 52 | 1972 1972 | 72 72 | 1973 1973 | 72 | 1973 | 71 | 1972 | 72 52 | 1973 1972 | 71 52 | 1972 1972 |
| EDUCATION AGRICULTURE | 74 | 1972 | 72 | 1973 | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 |
| LABOR AND INCOME INCOME DIST. UNEMPL PATE LABOR FORCE | E | | | | 63 | 1963 | | | 70 | 1970 | | |
| % FEMALE % IN AGR. | 35 25 | 1971 1972 | 35 88 | 1971 1973 | 25 | 1972 | 68 25 | 1973 1972 | 35 25 | 1971 1972 | 35 25 | 1971 1972 |

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| | Boli | via | Bra | azil | Bu | rma | Ch | ile | Colo | mbia | Ecua | dor | |
|----------------------------|------|------|-----|------|-----|------|-----|------|------|------|-------|------|---|
| | ref | date | ref | date | ref | date | ref | date | ref | date | ref | date | |
| AGRICULTURE LAND | | | | | | | | | | | | | - |
| TOTAL | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | |
| % ARABLE | 25 | 1972 | 67 | 1972 | 25 | 1972 | 25 | 1972 | 25 | 1972 | 25 | 1972 | |
| % PASTURE | 25 | 1972 | 67 | 1972 | 25 | 1972 | 25 | 1972 | 25 | 1972 | 25 | 1972 | |
| % CASH | | | • • | | | | | | | | | | |
| LAND DIST. | | | | | | | | | 64 1 | 968 | 64 | 1968 | |
| FOOD TRADE | | | | | | | | | - | | | | |
| EXPORTS IMPORTS | 24 | 1971 | 73 | 1970 | 24 | 1971 | 24 | 1971 | 24 | 1971 | 24 | 1971 | |
| PRODUCTION % OF INCOME ON | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | | | |
| FOOD | 64 | 1968 | 64 | 1968 | 64 | 1968 | 64 | 1968 | 57 | 1974 | 78 | 1960 | |
| HEALTH CARE FACILITIES | S | | | | | | | | | | | | |
| HOSPITALS | 72 | 1973 | 85 | | 72 | 1973 | 71 | 1972 | 72 | 1973 | 71 | 1972 | |
| BEDS | 72 | 1973 | 85 | | 72 | 1973 | 71 | 1972 | 72 | 1973 | 71 | 1972 | |
| TOTAL UNITS | 85 | | 85 | | . – | | 85 | 17.2 | 85 | 13,0 | 85 | 13.2 | |
| P/U RURAL | | | | | | | | | | | • • • | | |
| PERSONNEL | | | | | | | | | | | | | |
| DOCTORS | 72 | 1973 | 71 | 1972 | 72 | 1973 | 71 | 1972 | 72 | 1973 | 71 | 1972 | |
| % RURAL | | | | | | | | | | | | | |
| NURSES | 72 | 1973 | 71 | 1972 | 72 | 1973 | 71 | 1972 | 72 | 1973 | 71 | 1972 | |
| MIDWIVES | 91 | 1974 | 71 | 1972 | 72 | 1973 | 71 | 1972 | 72 | 1973 | 71 | 1972 | |
| EDUCATION | | | | | | | | | | | | | _ |
| EXPENDITURES | | | | | | | | | | | | | |
| TOTAL DISTRIB. | 74 | 1972 | | | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | |
| LEVEL FINISHED | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | |
| LITERACY | 52 | 1972 | 66 | 1971 | 66 | 1971 | 88 | 1973 | 52 | 1972 | 52 | 1972 | |

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| | <u>E1</u> | | G 1 | | •• | | _ | | - 1 | • | | | |
|--|------------------------|--------------------------------------|----------------------------|--------------------------------------|--------------------------|--------------------------------------|----------------------|------------------------------|----------|--------------|----------------------------|--------------------------------------|----------|
| | Salv | | | emala | | iti | | dia | | nesia | Jord | | |
| | ref | date | ref | date | ref | date | ref | date | ref | date | ref | date | |
| FOOD AVAILABILITY CALORIES PROTEIN IRON VITAMIN A | 23 23 | 1971 1971 | 32 32 29 | 1973 1973 1969 | 23 23 | 1971 1971 | 23 23 | 1971 1971 | 23 23 | 1971 1971 | 23 23 | 1971 1971 | |
| FOOD INTAKE CALORIES PROTEIN IRON VITAMIN A | 28 28 28 | 1969 1969 1969 | 29 29 29 | 1969 1969 1969 | 5 5 69 69 | 1959 1959 | | | | | | | |
| GOMEZ BIRTH WEIGHTS SEVERE DEFICIENCIES | 10 28 28 | 1974 1969 1969 | 10 29 29 | 1974 1969 1969 | 10 6 6 | 1974 1970 1970 | 10 | 1974 | 10 | 1974 | 10 80 80 | 1974 1963 1963 | |
| MORTALITY RESPIRATORY DIARRHEAL MEASLES TUBERCULOSIS MATERNAL | 67 67 67 91 | 1972 1972 1972 1974 1974 | 40 40 40 68 91 | 1974 1974 1974 1973 1974 | 6 | 1970 | 73 | 1970 | 91 | 1974 | 67 67 67 91 90 | 1972 1972 1972 1974 1967 | -57- |
| LEADING CAUSES CHILD MORTALITY 0-30 DAYS 1-12 MONTHS 1-4 YEARS | 51 72a 72a 88 | 1973 1974 1974 1973 | 91 72a 72a 88 | 1974 1974 1974 1973 | 6 | 1970 1970 1970 | 73 65 88 88 | 1970 1967 1973 1973 | 88 | 1973 | 90 72a 72a 67 | 1967 1974 1974 1972 | |
| LIFE EXPECTANCY AT BIRTH AT 10 HEMOGLOBIN | 72a 28 | 1974 1969 | 72a 29 | 1974 1969 | 6:54 | 1970; | 59 | | | | 80.8 | 0a 1963;64 | |
| DISEASE INCIDENCES RESPIRATORY DIARRHEAL MEASLES PELLAGRA BERIBERI | 89 89 91 | 1966 1966 1974 | 91 | 1974 | 90 90 91 6 6 | 1967 1967 1974 1970 1970 | | | 91 | 1974 | 90 90 90 | 1967 1967 1967 | <u>-</u> |

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| | Salv | ador | Guate | emala | <u>Hait</u> | <u>i</u> | <u>Indi</u> | <u>.a</u> | Indo | nesia | Jord | <u>lan</u> |
|---|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------|------------------------------|----------------------|------------------------------|----------------------------|------------------------------|----------|----------------|
| | ref | date | ref | date | ref | date | ref | date | ref | date | ref | đat |
| SCURVY | | | | | 6 | 1970 | | | | | | |
| RICKETS | | | | | 6 | 1970 | | | | | | |
| GOITER | | | • | | 6 | 1970 | | | | | | |
| KWASHIORKOR | | | | | | | | | | • | | |
| MARASMUS | | | | | | | | | | | | |
| KERATOMALACIA | | | | | | | | | | | | |
| ANEMIAS | | | | | 6 | 1970 | | | | | | |
| PARASITES | 28 | 1969 | 29 | 1969 | 38 | 1961 | | | | | | |
| TUBERCULOSIS | 91 | 1974 | 91 | 1974 | 6 | 1970 | | | | | | |
| POPULATION | | | | | | | | | | | | |
| TOTAL | 88 | 1973 | 88 | 1973 | 88 | 1973 | 88 | 1973 | 88 | 1973 | 88 | 19 |
| AGE DIST. | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 66 | 19 |
| DENSITY | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 19 |
| % URBAN | 67 | 1972 | 67 | 1972 | 66 | 1971 | 67 | 1972 | 67 | 1972 | 66 | 19 |
| GROWTH RATES | | | | | | | | | | | | |
| BIRTH | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 19 |
| DEATH | 0 / | 1912 | 07 | 1972 | 07 | 19/2 | 07 | 1914 | 07 | 1912 | | |
| MACROECONOMIC MEASURE | ls | | | | | | | | | | | |
| | | | | | | | | | | | | |
| GNP | | | | | | | | | | | | |
| GNP TOTAL | | | | | | | | | | | | |
| TOTAL | 34 | 1973 | 34 | 1973 | 71 | 1972 | 34 | 1973 | 34 | 1973 | 71 | 19 |
| TOTAL PER CAP. | 34 | 1973 | 34 | 1973 | 71 | 1972 | 34 | 1973 | 34 | 1973 | 71 | 19 |
| TOTAL PER CAP. GROWTH | 34 | 1973 | 34 | 1973 | 71 | 1972 | 34 | 1973 | 34 | 1973 | 71 | 19 |
| TOTAL PER CAP. | 34 | 1973 | 34 | 1973 | 71 | 1972 | 34 | 1973 | 34 | 1973 | 71 | 19 |
| TOTAL PER CAP. GROWTH FOREIGH TRADE EXPORTS | 34 71 | 1973 1972 | 34 71 | 1973 1972 | 71 71 | 1972 1972 | 34 71 | 1973 1972 | 34 71 | 1973 1972 | 71 71 | |
| TOTAL PER CAP. GROWTH FOREIGH TRADE | | | | | . – | | | | | | - | |
| TOTAL PER CAP. GROWTH FOREIGH TRADE EXPORTS IMPORTS | | 1972 | | 1972 | . – | 1972 | 71 | 1972 | 71 | 1972 | 71 | 19 |
| TOTAL PER CAP. GROWTH FOREIGH TRADE EXPORTS IMPORTS BALANCE | | | | | . – | | | 1972 1972 | 71 | | - | 19 |
| TOTAL PER CAP. GROWTH FOREIGH TRADE EXPORTS IMPORTS BALANCE GOVT. EXPEND. | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 19 |
| TOTAL PER CAP. GROWTH FOREIGH TRADE EXPORTS IMPORTS BALANCE GOVT. EXPEND. TOTAL | 71 71 | 1972 1972 | 71 71 | 1972 1972 | 71 | 1972 1972 | 71 71 | 1972 1972 | 71 | 1972 1973 | 71 | 19 19 |
| TOTAL PER CAP. GROWTH FOREIGH TRADE EXPORTS IMPORTS BALANCE GOVT. EXPEND. TOTAL HEALTH | 71 71 71 | 1972 1972 1972 | 71 71 40 | 1972 1972 1974 | 71 71 52 | 1972 1972 1972 | 71 71 71 | 1972 1972 1972 | 71 72 72 | 1972 1973 1973 | 71 | 19 19 19 |
| TOTAL PER CAP. GROWTH FOREIGH TRADE EXPORTS IMPORTS BALANCE GOVT. EXPEND. TOTAL HEALTH EDUCATION AGRICULTURE | 71 71 71 71 71 | 1972 1972 1972 1972 | 71 71 40 71 | 1972 1972 1974 1972 | 71 71 52 | 1972 1972 1972 | 71 71 71 71 | 1972 1972 1972 1972 | 71 72 72 | 1972 1973 1973 | 71 | 19 19 |
| TOTAL PER CAP. GROWTH FOREIGH TRADE EXPORTS IMPORTS BALANCE GOVT. EXPEND. TOTAL HEALTH EDUCATION AGRICULTURE LABOR AND INCOME | 71 71 71 71 71 | 1972 1972 1972 1972 | 71 71 40 71 | 1972 1972 1974 1972 | 71 71 52 74 | 1972 1972 1972 1972 | 71 71 71 71 | 1972 1972 1972 1972 | 71 72 72 | 1972 1973 1973 | 71 | 19 19 |
| TOTAL PER CAP. GROWTH FOREIGH TRADE EXPORTS IMPORTS BALANCE GOVT. EXPEND. TOTAL HEALTH EDUCATION AGRICULTURE LABOR AND INCOME INCOME DIST. | 71 71 71 71 71 | 1972 1972 1972 1972 1972 | 71 71 40 71 71 | 1972 1972 1974 1972 1972 | 71 71 52 74 | 1972 1972 1972 1972 | 71 71 71 71 | 1972 1972 1972 1972 | 71 72 72 72 72 | 1972 1973 1973 1973 | 71 | 19 19 |
| TOTAL PER CAP. GROWTH FOREIGH TRADE EXPORTS IMPORTS BALANCE GOVT. EXPEND. TOTAL HEALTH EDUCATION AGRICULTURE LABOR AND INCOME INCOME DIST. UNEMPL. RATE | 71 71 71 71 71 | 1972 1972 1972 1972 | 71 71 40 71 | 1972 1972 1974 1972 | 71 71 52 74 | 1972 1972 1972 1972 | 71 71 71 71 | 1972 1972 1972 1972 | 71 72 72 | 1972 1973 1973 | 71 | 19 19 |
| TOTAL PER CAP. GROWTH FOREIGH TRADE EXPORTS IMPORTS BALANCE GOVT. EXPEND. TOTAL HEALTH EDUCATION AGRICULTURE LABOR AND INCOME INCOME DIST. | 71 71 71 71 71 | 1972 1972 1972 1972 1972 | 71 71 40 71 71 | 1972 1972 1974 1972 1972 | 71 71 52 74 | 1972 1972 1972 1972 | 71 71 71 71 | 1972 1972 1972 1972 | 71 72 72 72 72 | 1972 1973 1973 1973 | 71 | 19 19 |

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| | El Salvador | | Guatemala | | Haiti | | Indi | India | | Indonesia | | <u>Jordan</u> | |
|------------------------------|----------------|--------------|-----------|--------------|----------|--------------|-----------------|--------------|----------|--------------|----------|---------------|--|
| | ref | date | ref | date | ref | date | ref | date | ref | date | ref | date | |
| AGRICULTURE LAND | | | - | | | | | | | | | | |
| TOTAL | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | |
| % ARABLE | 67 | 1972 | 67 | 1972 | 25 | 1972 | 67 | 1972 | 67 | 1972 | 25 | 1972 | |
| % PASTURE | 67 | 1972 | 67 | 1972 | 25 | 1972 | 67 | 1972 | 67 | 1972 | 25 | 1972 | |
| % CASH | 67 | 1972 | 07 | 1712 | 25 | 17/2 | 07 | 1712 | 0, | 1312 | 23 | 1712 | |
| LAND DIST. FOOD TRADE | 64 | 1968 | 64 | 1968 | | | | | | | 64 | 1968 | |
| EXPORTS IMPORTS | | | 24 | 1971 | 24 | 1971 | 24 | 1971 | 73 | 1970 | 24 | 1971 | |
| PRODUCTION % OF INCOME ON | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | |
| FOOD | 64 | 1968 | 64 | 1968 | | | 64 | 1968 | 64 | 1968 | 64 | 1968 | |
| HEALTH CARE FACILITIE | ES | | | | | | | | | | | | |
| HOSPITALS | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 72 | 1973 | |
| BEDS | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 72 | 1973 | |
| TOTAL UNITS | 85 | | 85 | 2.5.2 | 85 | 17.2 | 73 | 1970 | - | 17, L | | 1373 | |
| P/U RURAL | | | - • | | • | | . • | | | | | | |
| PERSONNEL | | | | | | | | | | | | | |
| DOCTORS % RURAL | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 72 | 1973 | |
| NURSES | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 71 | 1972 | 72 | 1973 | |
| MIDWIVES | | | 74 | 1972 | 91 | 1974 | $\frac{74}{74}$ | 1972 | 74 | 1972 | 72 | 1973 | |
| EDUCATION EXPENDITURES TOTAL | 74 | 1972 | | | | | | | | | | | |
| DISTRIB. | /4 | 19/2 | 74 | 1972 | 74 | 1972 | 74 | 1972 | | | 74 | 1972 | |
| LEVEL FINISHED LITERACY | 67 67 | 1972 1972 | 67 67 | 1972 1972 | 74 52 | 1972 1972 | 67 88 | 1972 1973 | 74 88 | 1972 1973 | 74 66 | 1972 1971 | |
| | | | | | | | | | | | | | |

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| | Kenya | ı | Malay | ysia | Nica | ragua | Nige | ria | <u>Paki</u> | stan | Pana | ma | |
|--|----------------------|------------------------------|----------------------|------------------------------|-----------------------|------------------------------|----------------------|------------------------------|-------------|--------------|-----------------------|--------------------------------------|------|
| | ref | date | ref | date | ref | date | ref | date | ref | date | ref | date | _ |
| FOOD AVAILABILITY CALORIES PROTEIN IRON VITAMIN A | 23 23 | 1971 1971 | 23 23 18 18 | 1971 1971 1974 1974 | 23 23 30 | 1971 1971 1969 | 23 23 | 1971 1971 | 23 23 | 1971 1971 | 23 23 | 1971 1971 | |
| FOOD INTAKE CALORIES PROTEIN IRON VITAMIN A | | | | | 30 30 30 30 | 1969 1969 1969 | 83 83 83 83 | 1967 1967 1967 1967 | | | 33 33 33 33 | 1973 1973 1973 1973 | |
| GOMEZ BIRTH WEIGHTS SEVERE DEFICIENCIES | 10 13 | 1974 1968 | 10 18 | 1974 1974 | 10 30 | 1974 1969 | 10 83 | 1974 1967 | 10 | 1974 | 10 31 | 1974 1969 | |
| MORTALITY RESPIRATORY DIARRHEAL MEASLES TUBERCULOSIS MATERNAL | 67 67 68 68 | 1972 1972 1973 1973 | 41 | 1971 | 67 67 67 89 | 1972 1972 1972 1966 | 67 67 67 91 | 1972 1972 1972 1974 | | | 67 67 91 91 | 1972 1972 1974 1974 1967 | -61- |
| LEADING CAUSES CHILD MORTALITY 0-30 DAYS 1-12 MONTHS 1-4 YEARS | 72a 68 67 | 1974 1973 1972 | 72a 67 67 | 1974 1972 1972 | 51 72a 68 67 | 1973 1974 1973 1972 | 65 67 | 1967 1972 | 88 88 | 1973 1973 | 90 72a 85 85 | 1967 1974 | |
| LIFE EXPECTANCY AT BIRTH AT 10 HEMOGLOBIN | | | 79 | 1964 | 72a 30 | 1974 1969 | 83 | 1967 | | | 72a 31 | 1974 1969 | |
| DISEASE INCIDENCES RESPIRATORY DIARRHEAL MEASLES PELLAGRA BERIBERI | 90 90 90 | 1967 1967 1967 | | | 90 90 90 | 1967 1967 1967 | 83 83 91 | 1967 1967 1974 | 56 56 | 1968 1968 | 90 90 90 | 1967 1967 1967 | |

| | Kenya | | Malaysia | | Nicaragua | | Nige | Nigeria | | <u>Pakistan</u> | | ma |
|--|--------------|--|----------|--------------|-----------|--------------|----------|--------------|-----|-----------------|----------|--------------|
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| SCURVY RICKETS GOITER KWASHIORKOR MARASMUS KERATOMALACIA | | | | | | | | | | | | |
| ANEMIAS PARASITES | | | 18 | 1974 | | | | | | | 31 | 1969 |
| TUBERCULOSIS | 91 | 1974 | 89 | 1966 | | | 91 | 1974 | | | | 1505 |
| POPULATION | | | | | | | | | | | | |
| TOTAL | 88 | 1973 | 88 | 1973 | 88 | 1973 | 88 | 1973 | 88 | 1973 | 88 | 1973 |
| AGE DIST. | 66 | 1971 | 67 | 1972 | 67 | 1972 | 66 | 1971 | | | 67 | 1972 |
| DENSITY | 67 | 1972 | 68 | 1973 | 67 | 1972 | 67 | 1972 | 68 | 1973 | 67 | 1972 |
| % URBAN | 66 | 1971 | 68 | 1973 | 66 | 1971 | 67 | 1972 | 68 | 1973 | 66 | 1971 |
| GROWTH RATES | | | | | | | | | | | | |
| BIRTH DEATH | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 | 67 | 1972 |
| MACROECONOMIC MEASURE | s | | | | | | | | | | | |
| GNP TOTAL PER CAP. GROWTH | 71 | 1972 | 34 | 1973 | 71 | 1972 | 71 | 1972 | 34 | 1973 | 71 | 1972 |
| FOREIGN TRADE EXPORTS IMPORTS BALANCE | 71 | 1972 | | | 71 | 1972 | 71 | 1972 | | | 71 | 1972 |
| GOVT. EXPEND. TOTAL | 72 | 1973 | 71 | 1972 | 74 | 1972 | 72 | 1973 | | | 71 | 1972 |
| HEALTH | 69 | 1970 | . / 1 | 1972 | 52 | 1972 | 21 | 1970 | | | 52 | 1972 |
| EDUCATION | 74 | 1972 | 71 | 1972 | 74 | 1972 | 21 | 1970 | | | 74 | 1972 |
| AGRICULTURE | 69 | 1970 | , _ | 1712 | 74 | 1912 | 21 | 1970 | | | / 4 | 1972 |
| LABOR AND INCOME | | ······································ | | | | | | | | | | |
| INCOME DIST. UNEMPL. RATE | 45 | 1971 | 71 | 1972 | | | 63 | 1963 | | | 70 71 | 1970 1972 |
| LABOR FORCE % FEMALE % IN AGR. | 25 | 1972 | 41 64 | 1972 1968 | 35 25 | 1971 1972 | 68 25 | 1973 1972 | 35 | 1971 | 35 25 | 1971 1972 |

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| | Kenya | <u>l</u> | <u>Malaysia</u> | | Nica | Nicaragua | | Nigeria | | <u>Pakistan</u> | | Panama | |
|-----------------------------|-------|----------|-----------------|------|------|-----------|-----|---------|-----|-----------------|-----|--------|----|
| | ref | date | ref | date | ref | date | ref | date | ref | date | ref | date | |
| AGRICULTURE LAND | - | | | | | | | | | | | | |
| TOTAL | 67 | 1972 | 68 | 1973 | 67 | 1972 | 67 | 1972 | | | 67 | 1972 | |
| % ARRABLE | 25 | 1972 | - | | 25 | 1972 | 25 | 1972 | | | 25 | 1972 | |
| <pre>% PASTURE % CASH</pre> | 25 | 1972 | | | 25 | 1972 | 25 | 1972 | | | 25 | 1972 | |
| LAND DIST. FOOD TRADE | 39 | 1971 | | | 52 | 1972 | | | | | 64 | 1968 | |
| EXPORTS IMPORTS | 24 | 1971 | 73 | 1970 | 24 | 1971 | 24 | 1971 | | | 24 | 1971 | |
| PRODUCTION 8 OF INCOME ON | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | |
| FOOD | 64 | 1968 | 64 | 1968 | | | 64 | 1968 | | | 64 | 1968 | |
| HEALTH CARE FACILITIE | ES | | | | | | | | | | | | |
| HOSPITALS | 72 | 1973 | 71 | 1972 | 71 | 1972 | 72 | 1973 | 71 | 1972 | 71 | 1972 | |
| BEDS | 72 | 1973 | 71 | 1972 | | | | | 71 | 1972 | 71 | 1972 | 1 |
| TOTAL UNITS | | | | | 85 | | | | | | 87 | 1972 | 63 |
| P/U RURAL | | | 18 | 1974 | | | | | | | | | i |
| PERSONNEL | | | | | | | | | | | | | |
| DOCTORS | 72 | 1973 | 71 | 1972 | 71 | 1972 | 72 | 1973 | 71 | 1972 | 71 | 1972 | |
| % RURAL | | | | | | | | | | | | | |
| NURSES | 72 | 1973 | 71 | 1972 | 71 | 1972 | 72 | 1973 | 71 | 1972 | 71 | 1972 | |
| MIDWIVES | 72 | 1973 | 74 | 1972 | | | 72 | 1973 | 74 | 1972 | | | |
| EDUCATION EXPENDITURES | | | | | | | | | | | | | |
| TOTAL DISTRIB. | 74 | 1972 | 74 | 1972 | 74 | 1972 | 74 | 1972 | | | 74 | 1972 | |
| LEVEL FINISHED | 74 | 1972 | 67 | 1972 | 74 | 1972 | | | 74 | 1972 | 74 | 1972 | |
| LITERACY | 88 | 1973 | 88 | 1973 | 52 | 1972 | 66 | 1971 | 66 | 1971 | 66 | 1971 | |

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| | | Phili | ppines | Thail | and | Tunisia | | | |
|------|--|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------|--------------|--|--|
| | | ref | date | ref | date | ref | date | | |
| FOOD | AVAILABILITY CALORIES PROTEIN IRON VITAMIN A | 23 23 | 1971 1971 | 23 23 | 1971 1971 | 23 | 1971 1971 | | |
| FOOD | INTAKE CALORIES PROTEIN IRON VITAMIN A | 26 26 26 26 | 1972 1972 1972 1972 | | | 60 60 | 1970 1970 | | |
| | Z H WEIGHTS RE DEFICIENCIES | 1.0 | 1974 | 10 61 | 1974 1971 | 10 60 | 1974 1970 | | |
| | ALITY RESPIRATORY DIARRHEAL MEASLES TUBERCULOSIS MATERNAL | 67 67 67 91 91 | 1972 1972 1972 1974 1974 | 14 14 91 91 91 | 1971 1971 1974 1974 1974 | 00 | 1970 | | |
| | ING CAUSES MORTALITY 0-30 DAYS 1-12 MONTHS 1-4 YEARS | 90 72a 88 88 | 1967 1974 1973 1973 | 90 72a 68 68 | 1967 1974 1973 1973 | 68 68 | 1973 1973 | | |
| | EXPECTANCY AT BIRTH AT 10 GLOBIN | | | 72a 72a 81 | 1974 1974 1962 | | | | |
| DISE | ASE INCIDENCES RESPIRATORY DIARRHEAL MEASLES PELLAGRA BERIBERI | 90 90 90 | 1967 1967 1967 | | | | | | |

| | | Phil | ippines | Thai | land | Tunisia | |
|------|---|----------|--------------|-------------|--------------|----------|--------------|
| | | ref. | date | ref | date | ref | date |
| | SCURVY RICKETS GOITER KWASHIORKOR | | | | | 60 | 1970 |
| | MARASMUS KERATOMALACIA ANEMIAS PARASITES | | | | | 60 | 1970 |
| | TUBERCULOSIS | | | | | 60 | 1970 |
| POPU | LATION | 0.0 | 1072 | 0.0 | 1072 | 0.0 | 1072 |
| | TOTAL AGE DIST. | 88 66 | 1973 1971 | 88 67 | 1973 1972 | 88 67 | 1973 1972 |
| | DENSITY | 67 | 1972 | 67 | 1972 | 67 | 1972 |
| | % URBAN | 67 | 1972 | 66 | 1971 | 66 | 1971 |
| | GROWTH RATES | | | | | | |
| | BIRTH DEATH | 67 | 1972 | 67 | 1972 | 67 | 1972 |
| MACR | OECONOMIC MEASURE GNP | S | | | | | |
| | TOTAL | | | | | | |
| | PER CAP. | 71 | 1972 | 71 | 1972 | 71 | 1972 |
| | GROWTH FOREIGN TRADE | | | | | | |
| | EXPORTS | | | | | | |
| | IMPORTS | 71 | 1972 | 71 | 1972 | 71 | 1972 |
| | BALANCE | | | | | | |
| | GOVT. EXPEND. | | | | | | |
| | TOTAL | 72 | 1973 | 71 | 1972 | 74 | 1972 |
| | HEALTH | 72 | 1973 | 14 | 1971 | 74 | 1070 |
| | EDUCATION AGRICULTURE | 72 72 | 1973 1973 | 14 14 | 1971 1971 | 74 | 1972 |
| | | | <u> </u> | | 13/1 | | |
| | LABOR AND INCOME INCOME DIST. | | | | | | |
| | UNEMPL. RATE | 71 | 1972 | | | 36;7 | 2/1971;73 |
| | LABOR FORCE | 25 | 1071 | 2 5 | 1971 | 2 5 | 1071 |
| | <pre>% FEMALE % IN AGR.</pre> | 35 25 | 1971 1972 | 35 25 | 1971 | 35 25 | 1971 1972 |
| | o IN AGR. | 23 | 1912 | <i>4. 3</i> | 1912 | 23 | 1914 |

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| | Philippines 5 | | Tha | <u>Thailand</u> | | sia |
|-----------------------|---------------|--------------|-----|-----------------|-----|------|
| | ref | date | ref | date | ref | date |
| AGRICULTURE | | | | | | |
| LAND | | | | | | |
| TOTAL | 67 | 1972 | 67 | 1972 | 67 | 1972 |
| <pre>% ARABLE</pre> | 25 | 1972 | 25 | 1972 | 25 | 1972 |
| % PASTURE | 25 | 1972 | 25 | 1972 | 25 | 1972 |
| % CASH | | | | | | |
| LAND DIST. | 64 | 1968 | 69 | 1970 | | |
| FOOD TRADE | | | | | | |
| EXPORTS | 24 | 1971 | 24 | 1971 | 24 | 1971 |
| IMPORTS | | | | | | |
| PRODUCTION | 74 | 1972 | 74 | 1972 | 74 | 1972 |
| % OF INCOME ON | <i>C</i> 1 | 1968 | 64 | 1968 | 64 | 1968 |
| FOOD | 64 | 1966 | 04 | 1900 | 04 | 1900 |
| HEALTH CARE FACILITIE | | | | | | |
| HOSPITALS | 72 | 1973 | 71 | 1972 | 71 | 1972 |
| BEDS | | | | | | |
| TOTAL UNITS | | | 59 | 1968 | | |
| P/U RURAL | | | | | | |
| PERSONNEL | | | | | | |
| DOCTORS | 72 | 1973 | 71 | 1972 | 71 | 1972 |
| % RURAL | | | | | | |
| NURSES | 72 | 1973 | 71 | 1972 | 71 | 1972 |
| MIDWIVES | 72 | 1973 | 71 | 1972 | 71 | 1972 |
| EDUCATION | | | | | | |
| EXPENDITURES | | | | | | |
| TOTAL | | | 74 | 1972 | 74 | 1972 |
| DISTRIB. | | | /4 | 1972 | /4 | 1972 |
| LEVEL FINISHED | 7 4 | 1070 | 7 4 | 1070 | | |
| DDANN LIMIDIND | 74 | 1972 1972 | 74 | 1972 1973 | | 1971 |

TABLE REFERENCES: NOTES ON THE DATA

Bolivia:

Food intake: 24-hour recall survey of nationwide sample of 56 families including 396 individuals.

Severe deficiencies: Table 21, pp. 88-89. 24-hour recall survey of 46 families including 338 persons. Problems with interpreting Indian language. Not in order of severity; intake varied among areas.

Hemoglobin: 42 rural and urban low-income individuals remained in health centers and other institutions.

Brazil:

Gomez: sample of 5864 children age 0-4 in Pernambuco. Leading causes of child deaths: limited sample.

Burma:

Food intake: questionnaire survey of 1848 individuals in 386 households, nationwide "representative sample."

Severe deficiencies: based on food-composition analyses of above surveys.

Hemoglobin: sample of 164 persons.

Chile:

Gomez: 50,839 children age 0-5 years in Santiago.

Birth weights: 4081 M, 3939 F, full term infants surviving
48 hours or more, born at clinics and from low and
middle income groups.

Hemoglobin: nationwide urban sample of 368 individuals comprising randomly chosen entire households.

Colombia:

Food intake: 24-hour recall questionnaire administered to housewives in 322 families.

Gomez: sample of 1,094 children age 0-5 years in Candelaria

Severe deficiencies: intakes as indicated by nutrition survey, compared to recommended allowances.

Disease prevalence: parasite level based on lab study of 1,263 children in 35 locations; PCM based on sample of 2,340 children age 0-5.

Hemoglobin: national sample of 647 lower-income persons examined at health centers.

Ecuador:

Food intake: 24-hour recall of 2,000 individuals in 341 families from coastal and sierra regions.

Gomez: sample of 426 children in Cuayaquil.

Severe dificiencies: based on food intake study; mean intakes for total sample as % RDA (NRC).

% of income on food: survey of 328 families of low to moderate income.

Hemoglobin: sample of 300 obtained by testing first 15 persons coming through health survey examination each day.

El Salvador:

Food intake: 24-hour recall study of 151 families.

Gomez: nationwide sample of 574 children age 0-4.

El Salvador: contd.

Birth weights: nationwide survey of 671 children.

Severe deficiencies: based on 24-hour recall study of 142 families.

% of income on food: urban only.

Hemoglobin: 666 individuals.

Guatemala:

Food intake: diet survey of 200 families.

Gomez: national survey of 763 children age 0-4.

Birth weights: national survey of 867 children age 0-4.

Severe deficiencies: based on food intake study; nutrients found most seriously lacking.

Hemoglobin: survey of 910 individuals at all altitudes.

Haiti:

Food intake: iron and vitamin A from national survey, urban and rural.

Gomez: Fonds Parisiens sample of 298 children age 1-5 years. Severe deficiencies: based on WHO and Health Bureau survey of existing nutrition-status studies and their recommendations.

India:

Gomez: rural sample of 3029 children age 1-5 years.

Leading causes of child deaths: for ages 2-12 months.

Indonesia:

Gomez: sample of 616 children in Java ages 0-4 years.

Jordan:

Gomez: 1,050 children age 0-5 years in Amman and Jerusalem.

Birth weights: study of 2,127 infants at Government Maternity
Hospital in Amman, June-December 1962.

Severe deficiencies: based on nutrition survey of 613 individuals in 61 refugee and 39 non-refugee families using dietary interview.

Hemoglobin: age 0-5 years based on 2843 children, mostly visiting MCH centers; proportional amounts from urban, rural, and refugee groups. Age 5-45 based on 125 males, 128 females and 46 pregnant and lactating.

Kenya:

Gomez: sample of 353 children.

% Income on Food: Nairobi only.

Malaysia:

Gomez: sample of 1404 children age 0-5 years.

Hemoglobin: random sample of 604 civilian individuals given detailed clinical examinations in health survey.

Nicaragua:

Food intake: 24-hour recall study of 98 families (673 individuals) in Managua. Survey of 355 rural households (2244 individuals) showed: calories 1986, protein 64.4 gm., vitamin A .508 mg, iron 18.2 mg.

Gomez: national survey of 708 children age 0-4 years.

Severe deficiencies: based on Managua food intake survey and rural surveys; on nutrient content of foods and on incidence of goiter in nationwide clinical study.

Nicaragua: contd.

Hemoglobin: nationwide sample of 745 from all altitudes; age 3-11 sample size 7.

Nigeria:

Food intake: recipe-method evaluation of intakes of 68 families (444 persons) selected for distribution of occupation, income, family size, age, and cultural background.

Gomez: sample of 551 children age 0-5 years.

Severe deficiencies: based on nutrition survey results as compared to recommended levels.

% income on food, and mortalities: Lagos only.

Hemoglobin: 648 individuals in nationwide sample.

Pakistan:

Gomez: sample of 430 children age 0-4.

Panama:

Food intake: 24-Hour recall survey of 36 rural families (2284 individuals). Panama City survey of 96 families (539 persons) showed intake of 2101 calories, 70.9 gm. protein, 1.11 mg. vitamin A, 14.9 mg. iron.

Philippines:

Gomez: sample of 2468 children age 0-4 years.

Thailand:

Gomez: sample of 1,947 children ages 0-6 in urban slums. Hemoglobin: 93% rural sample, total of all categories 182

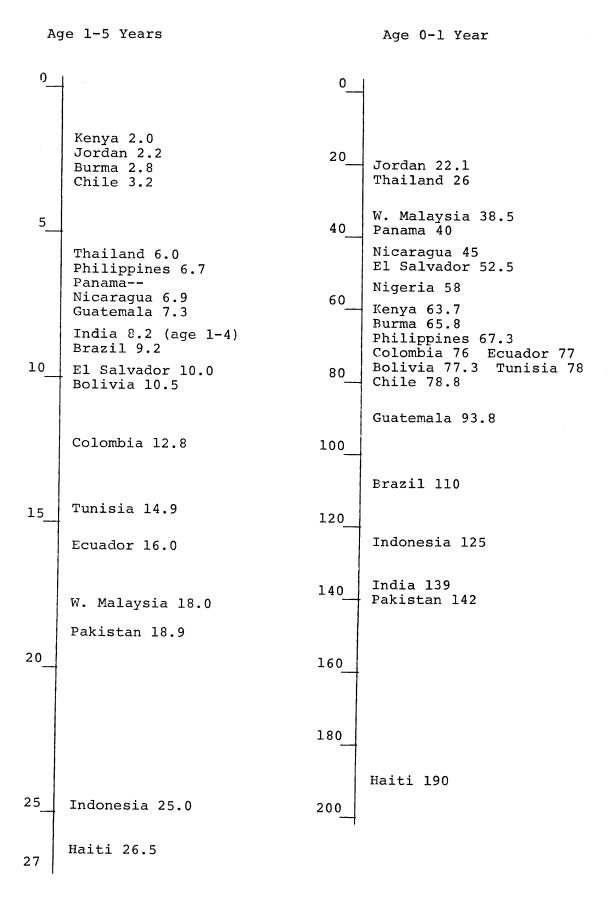
persons.

Tunisia:

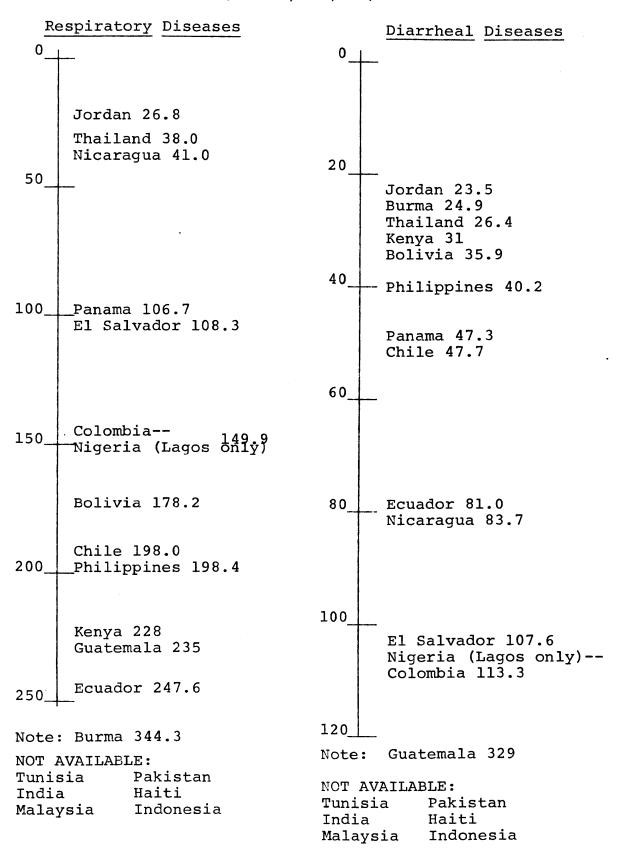
Gomez: sample of 258 children age 0-4 years.

GRAPHS SHOWING RELATIVE STATUS AMONG COUNTRIES

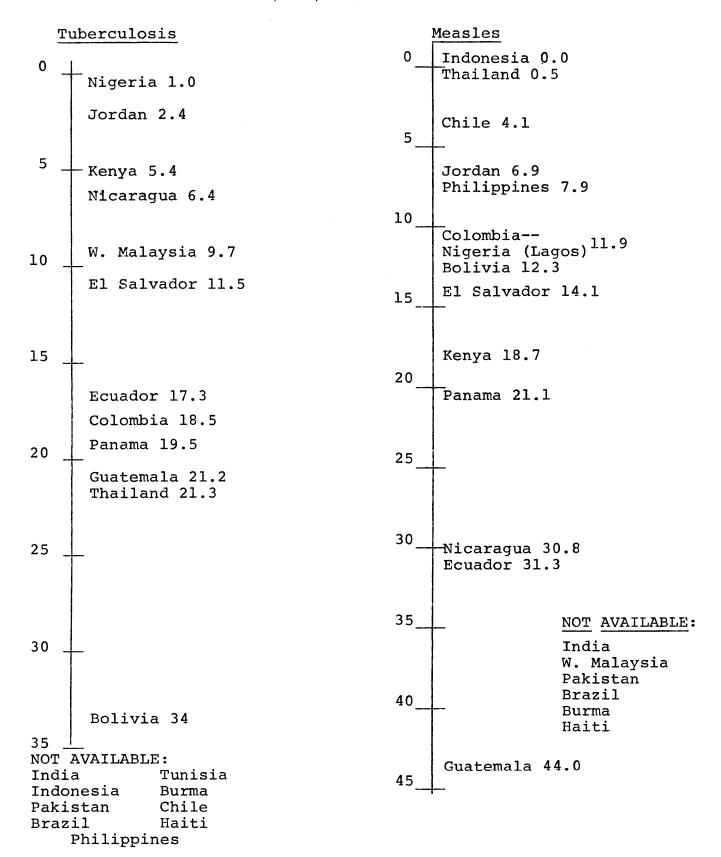
INFANT AND CHILD MORTALITY RATES (deaths/1,000)



MORTALITY RATES OF CONTAGIOUS DISEASES I (deaths/100,000)



MORTALITY RATES OF CONTAGIOUS DISEASES II (deaths/100,000)



MATERNAL MORTALITY (deaths per 1,000 live births)

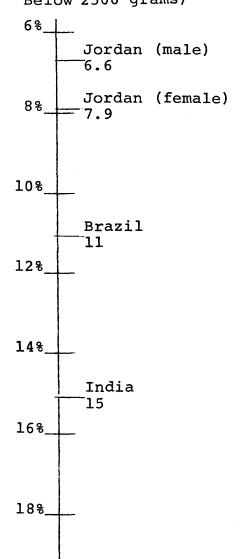
0.0 0.5 El Salvador .7 Jordan .9 1.0 Panama 1.3 Haiti 1.54 (in hospitals) W. Malaysia 1.6 Guatemala-- 2.0 Philippines--2.0 Ecuador 2.2 Colombia 2.4 Thailand 2.6 3.0 India 3.0*

*India separate conflicitng sources also report 6.0

NOT AVAILABLE:

Kenya Nicaragua Indonesia Chile Burma Nigeria Tunisia Pakistan Brazil Bolivia

PREMATURITY RATE (% Birth Weight Below 2500 grams)



Indonesia

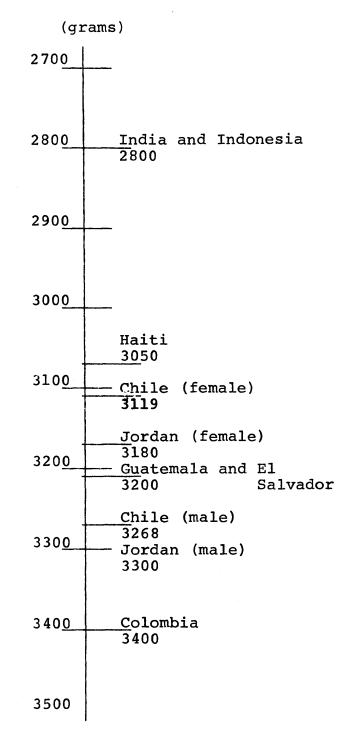
22.6

20%_

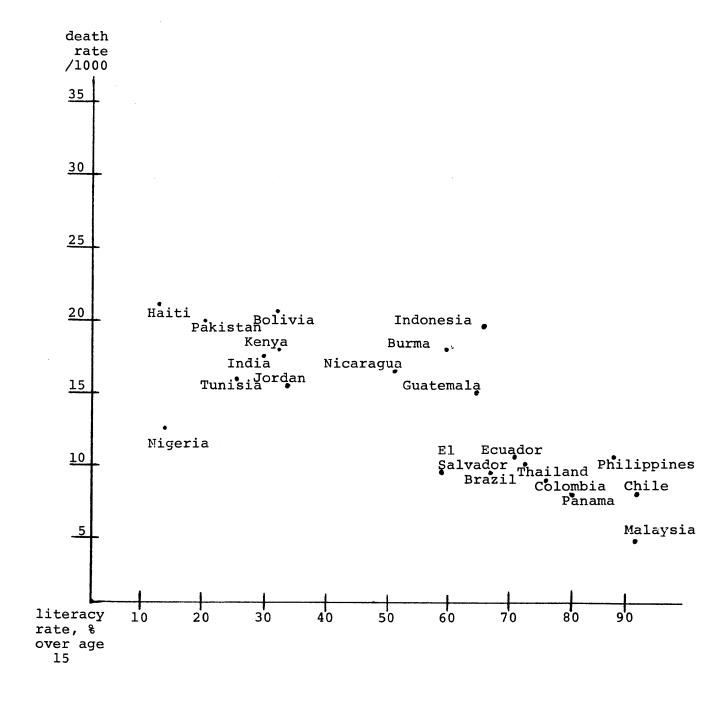
22%

23%

AVERAGE BIRTH WEIGHT



COMPARISON OF LITERACY AND DEATH RATES



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